Resolution in Prepositional Logic Examples

$S_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

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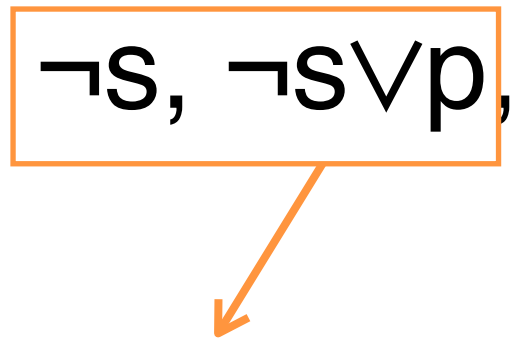
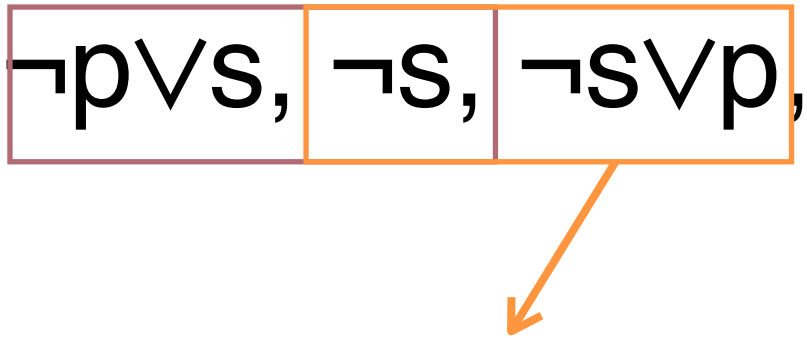


$\neg s \vee p$ can be subsumed into $\neg s$

$S_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$



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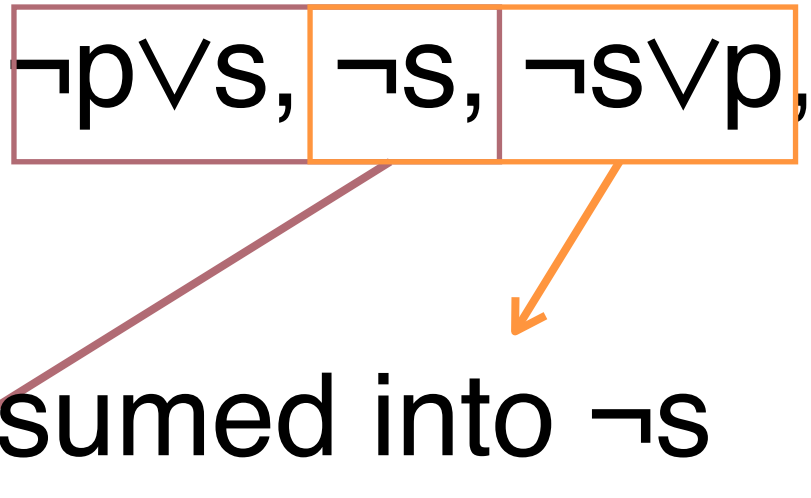

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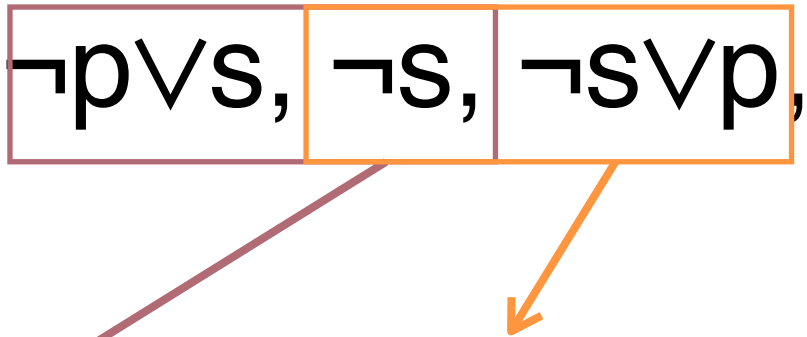
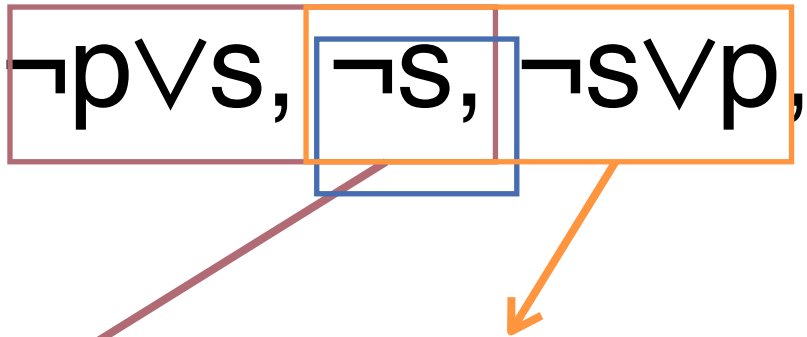


$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

$S_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$



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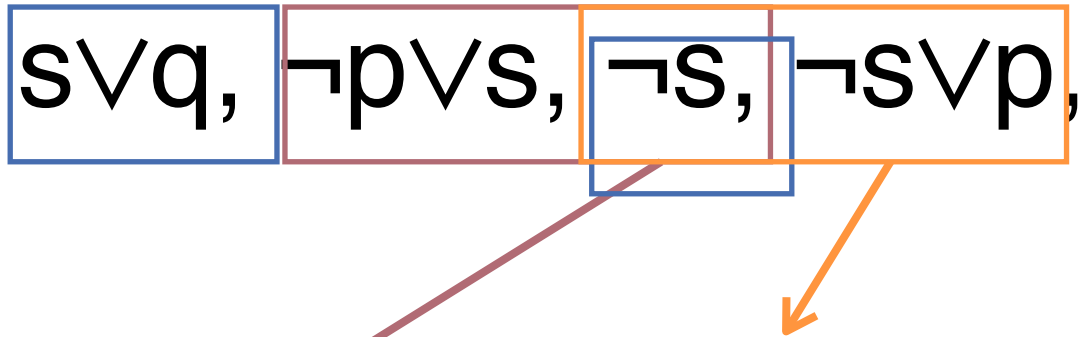

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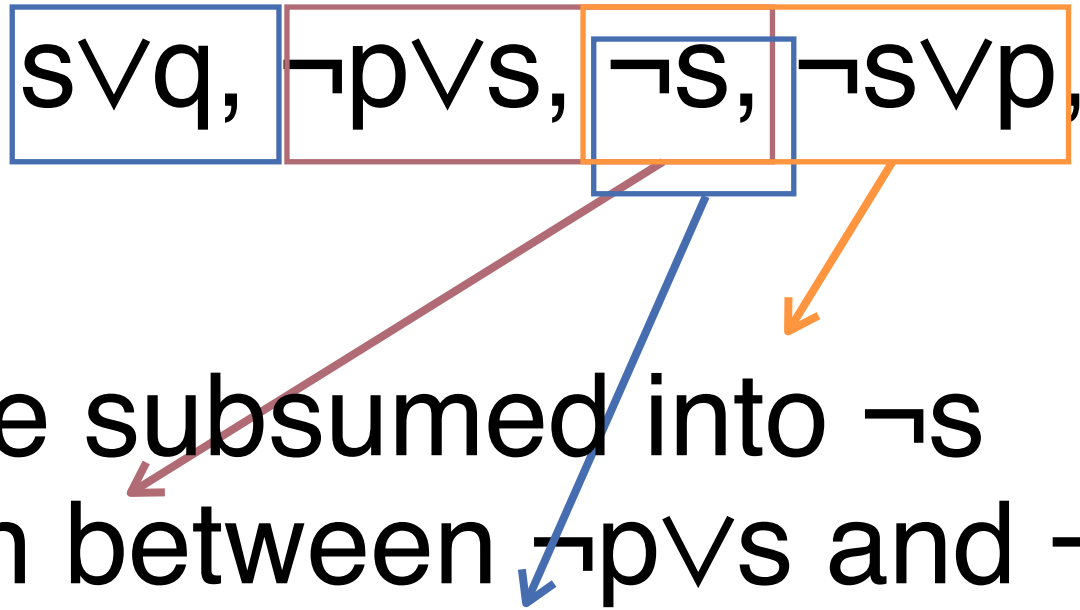

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Resolution between $\neg p \vee s$ and $\neg s$

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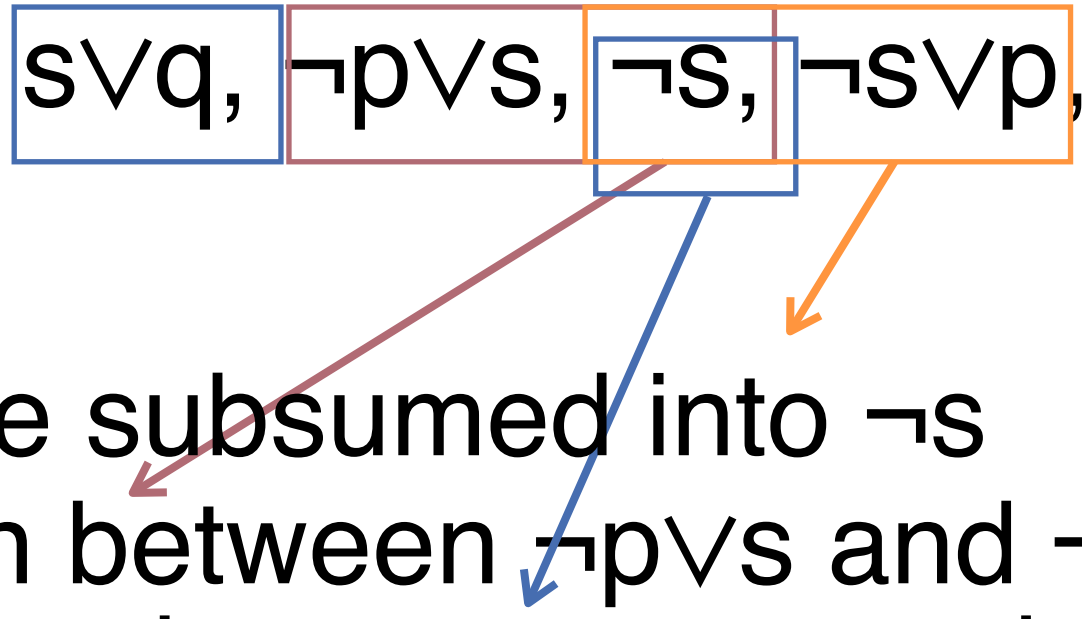

$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

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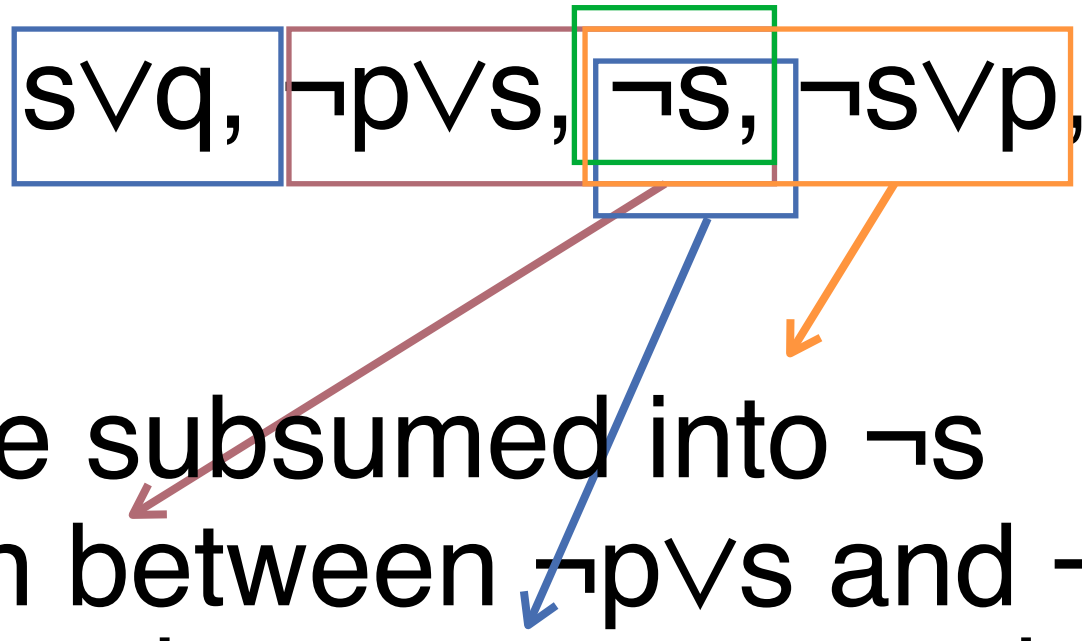

$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

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Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

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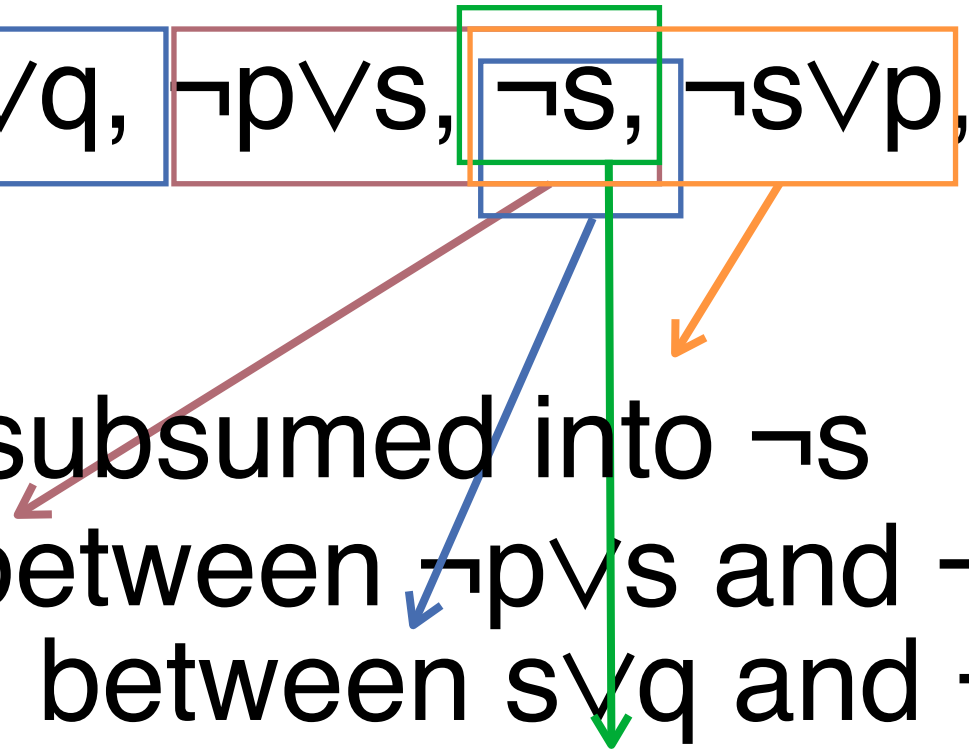

$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

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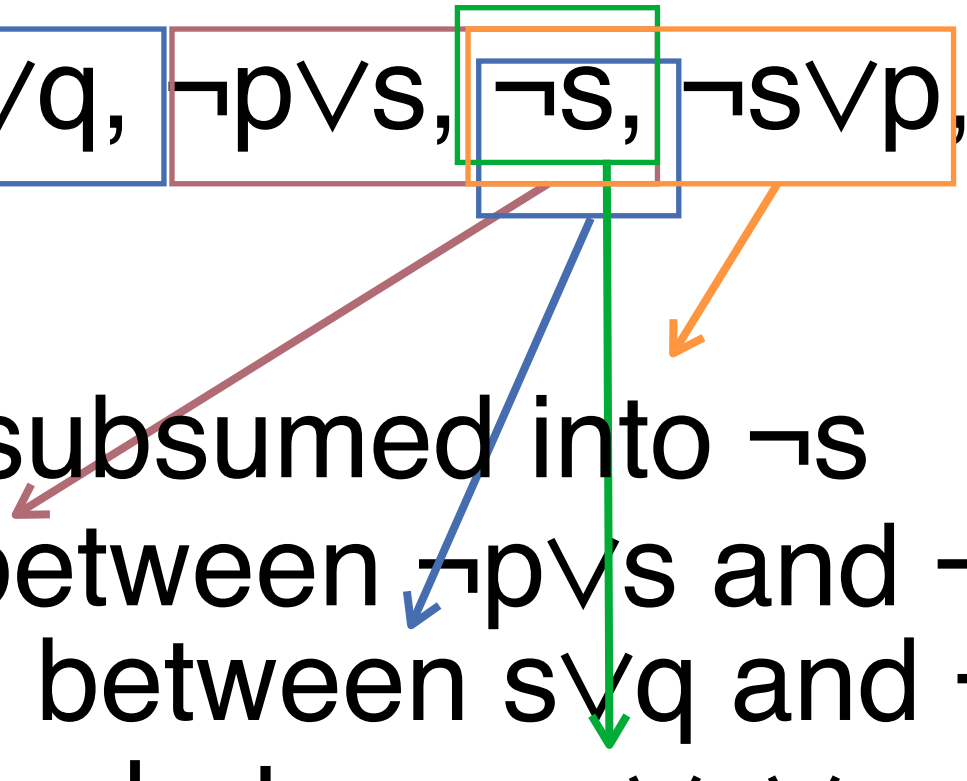

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Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

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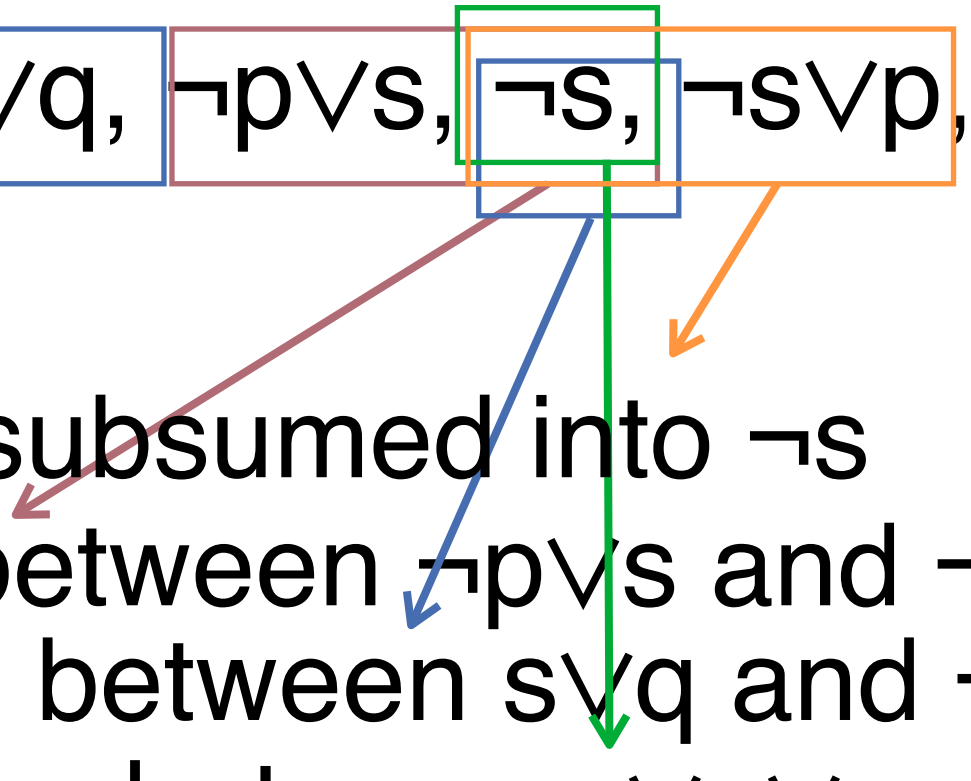


$\neg s \vee p$ can be subsumed into $\neg s$

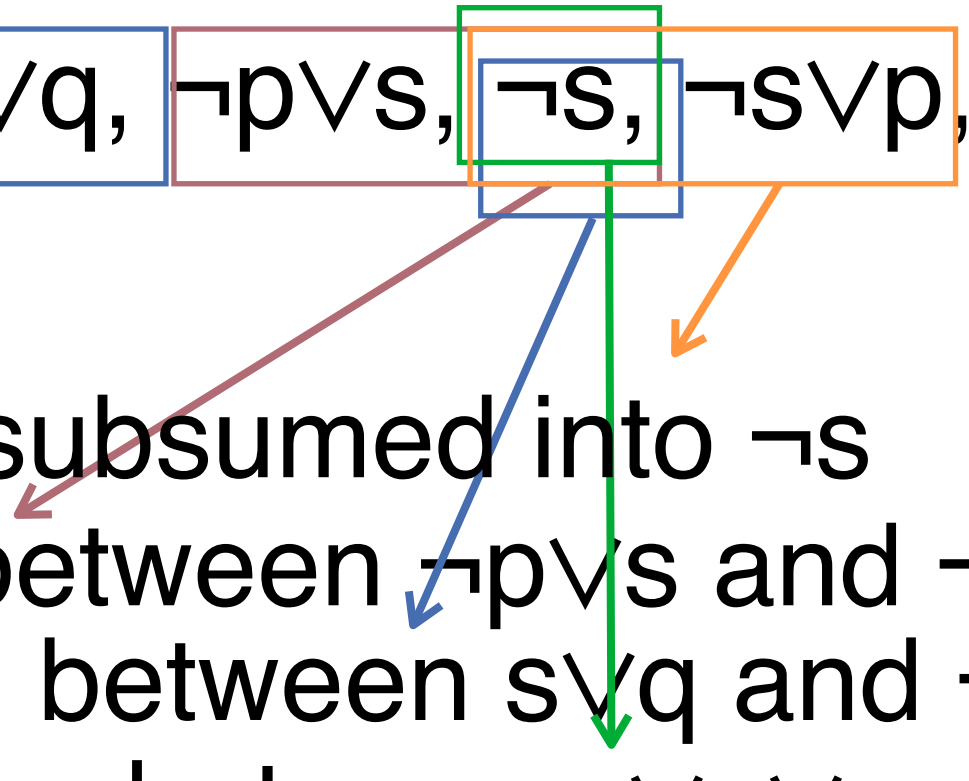
Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg s,\ \neg s \vee p\}, \{\neg s\}) = 0$

$s_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$



$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

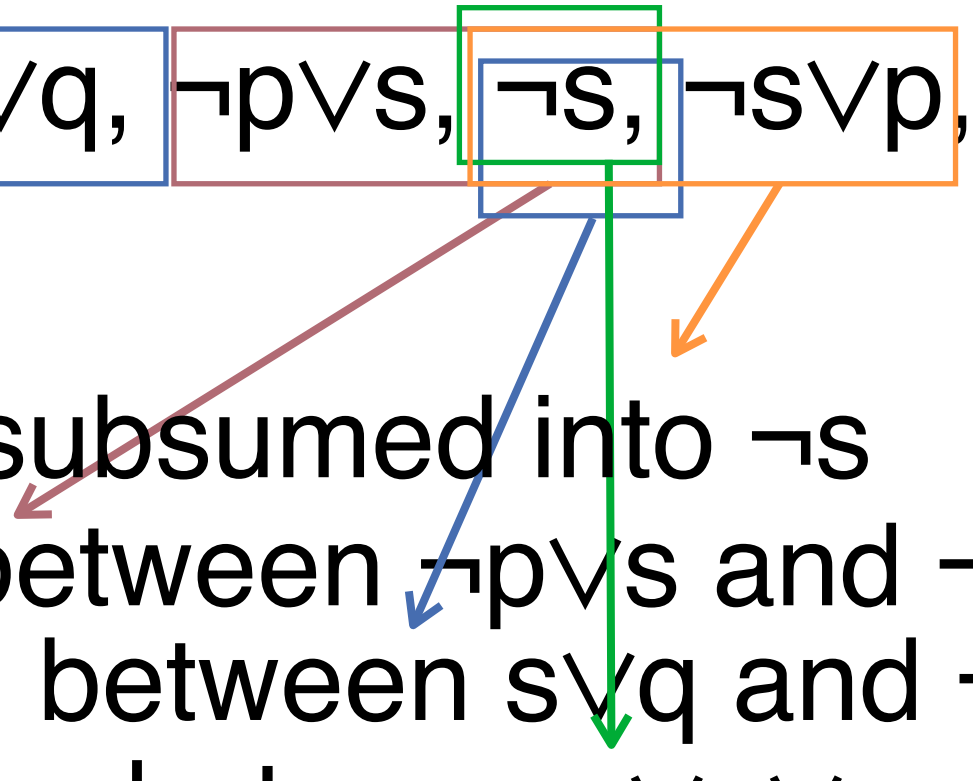
Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$$f_{wert,1}(\{\neg s,\ \neg s \vee p\}, \{\neg s\}) = 0$$

$$f_{wert,1}(\{s \vee q,\ \neg s\}, \{s \vee q, \neg s,\ q\}) = 1$$

$s_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$



$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

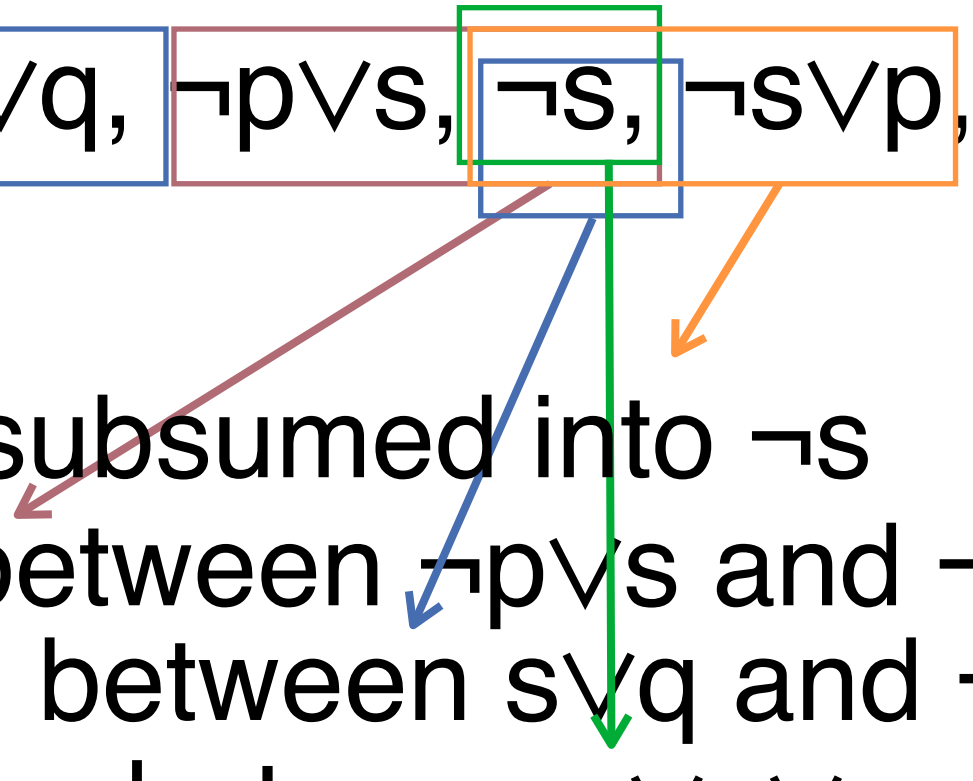
Resolution between $r \vee p \vee s$ and $\neg s$

$$f_{wert,1}(\{\neg s,\ \neg s \vee p\}, \{\neg s\}) = 0$$

$$f_{wert,1}(\{s \vee q,\ \neg s\}, \{s \vee q, \neg s,\ q\}) = 1$$

$$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$$

$s_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$



$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

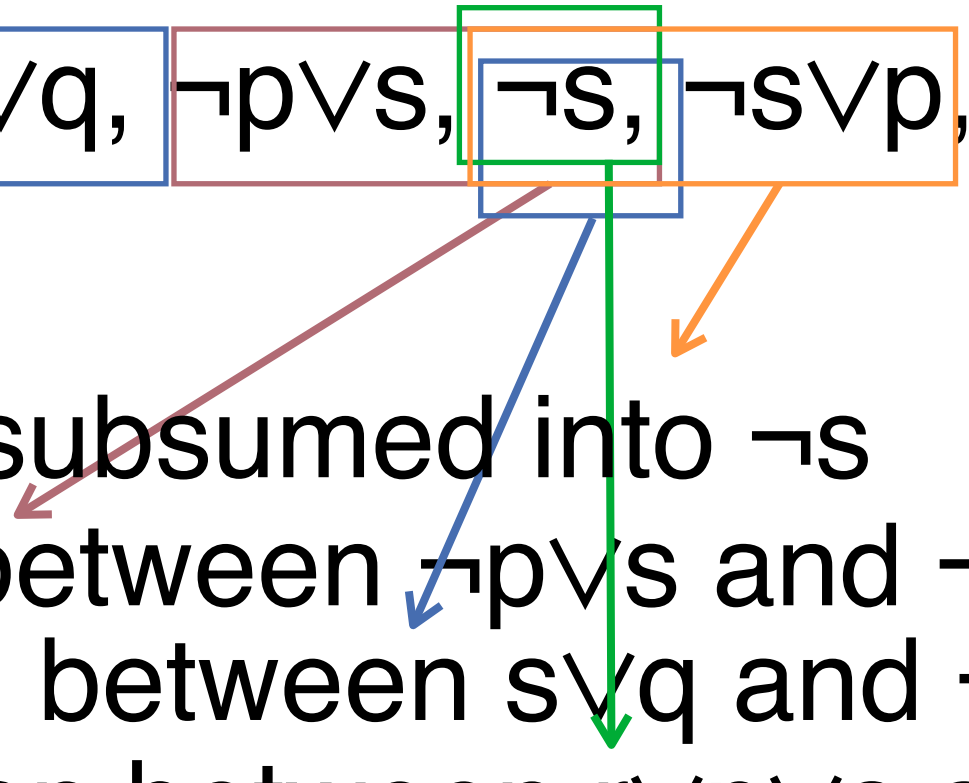
$$f_{wert,1}(\{\neg s,\ \neg s \vee p\}, \{\neg s\}) = 0$$

$$f_{wert,1}(\{s \vee q,\ \neg s\}, \{s \vee q, \neg s,\ q\}) = 1$$

$$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$$

$s_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$



$\neg s \vee p$ can be subsumed into $\neg s$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$$f_{wert,1}(\{\neg s,\ \neg s \vee p\}, \{\neg s\}) = 0$$

$$f_{wert,1}(\{s \vee q,\ \neg s\}, \{s \vee q, \neg s,\ q\}) = 1$$

$$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$$

$S_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

$S_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

$$s_0 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$$

$$s_1 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r\}$$

$s_1 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{s \vee q,\ \neg s\}, \{s \vee q, \neg s,\ q\}) = 1$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_1 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $s \vee q$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{s \vee q,\ \neg s\}, \{s \vee q, \neg s,\ q\}) = 1$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$S_1 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

$s_1 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

$s_1 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ \neg s \vee p,\ p \vee \neg r\}$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_2 = \{r \vee p \vee s, \boxed{s \vee q}, \neg p \vee s, \neg s, p \vee \neg r, \boxed{q}\}$

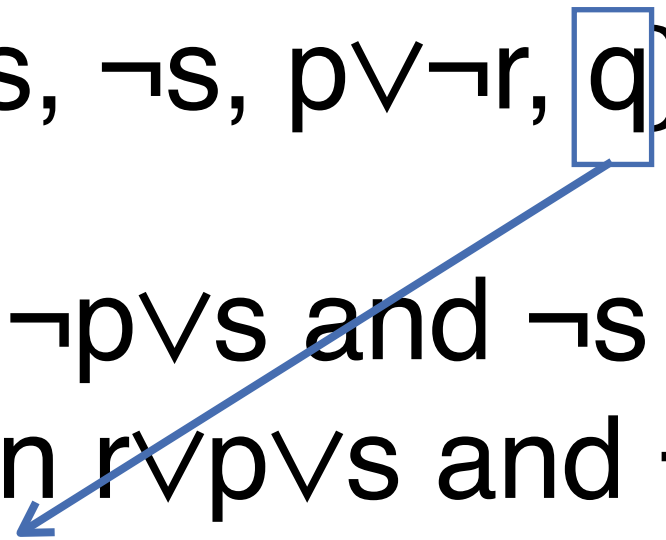
Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg p \vee s, \neg s\}, \{\neg p \vee s, \neg s, \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s, \neg s\}, \{r \vee p \vee s, \neg s, r \vee p\}) = 2$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$



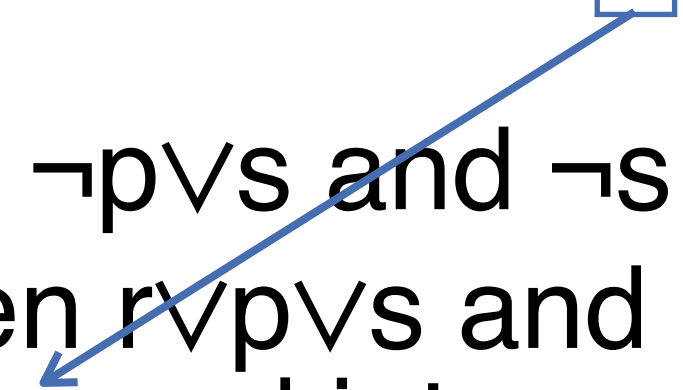
Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$



Resolution between $\neg p \vee s$ and $\neg s$

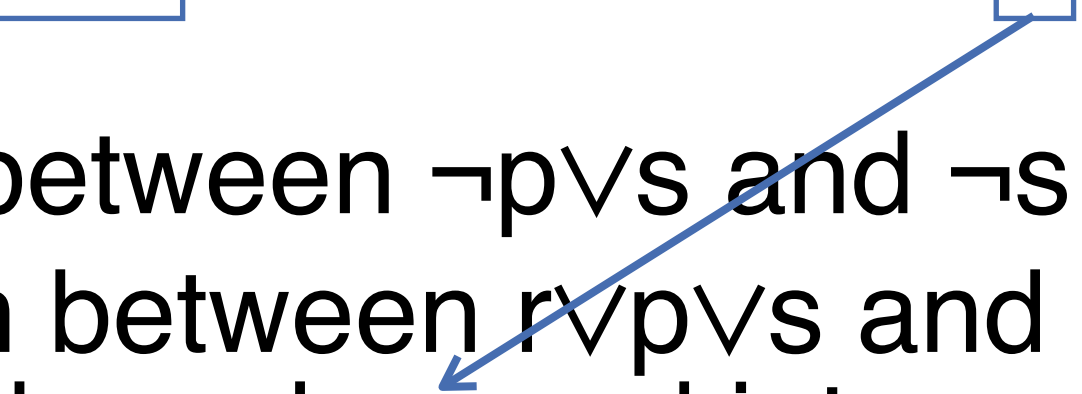
Resolution between $r \vee p \vee s$ and $\neg s$

$s \vee q$ can be subsumed into q

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$



Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

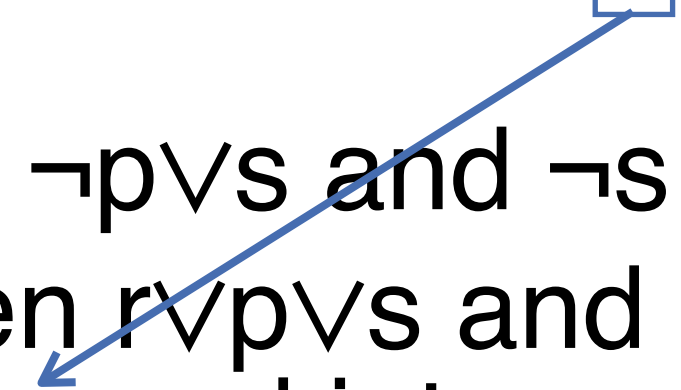
$s \vee q$ can be subsumed into q

$$f_{wert,1}(\{q,\ s \vee q\},\ \{q\}) = 0$$

$$f_{wert,1}(\{\neg p \vee s,\ \neg s\},\ \{\neg p \vee s, \neg s,\ \neg p\}) = 1$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg s\},\ \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$



Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$s \vee q$ can be subsumed into q

$f_{wert,1}(\{q,\ s \vee q\},\ \{q\}) = 0$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\},\ \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\},\ \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

$s_2 = \{r \vee p \vee s,\ s \vee q,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

$s_3 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

$s_3 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_3 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

Resolution between $\neg p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{\neg p \vee s,\ \neg s\}, \{\neg p \vee s, \neg s,\ \neg p\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$$S_3 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$$

$s_3 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$

$$s_3 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q\}$$

$$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

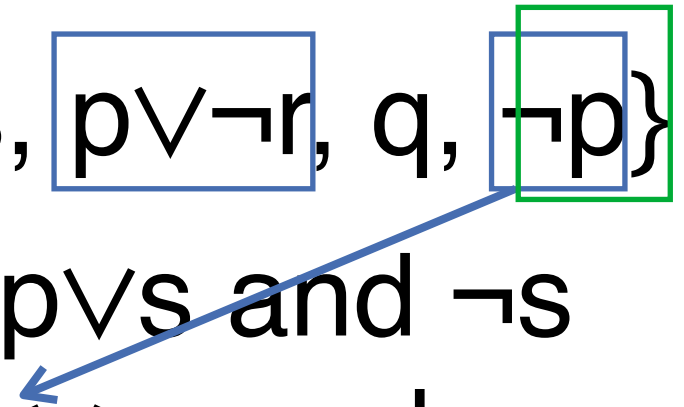
$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

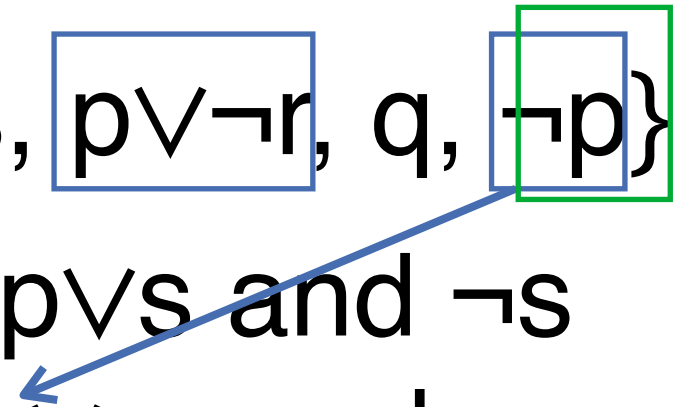


Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg\neg p\}$

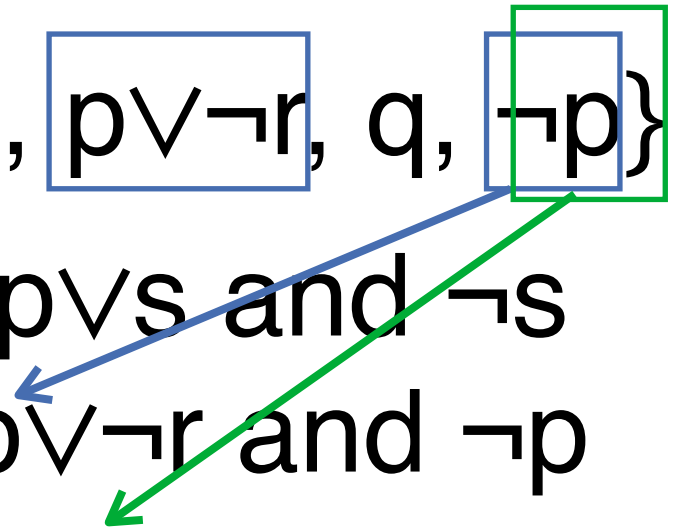


Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

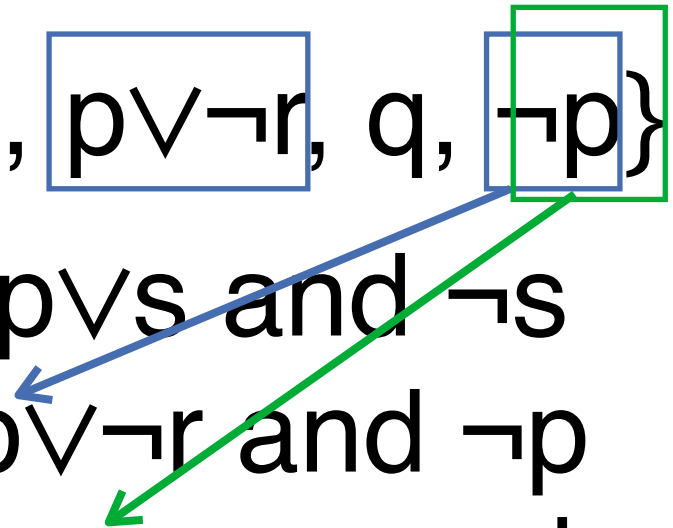


Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



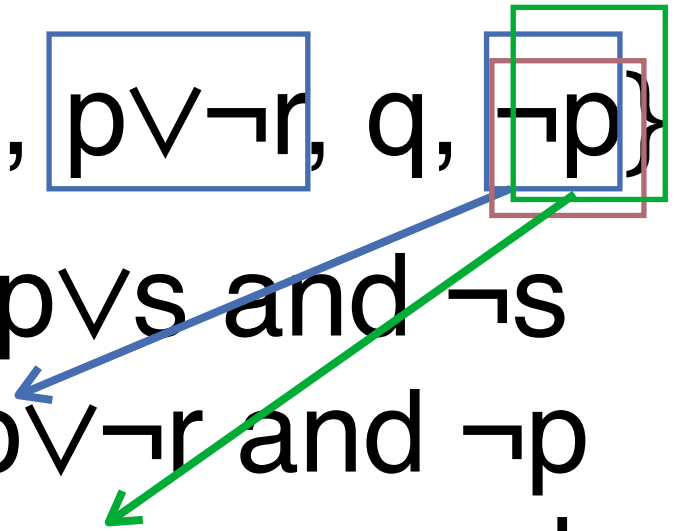
Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



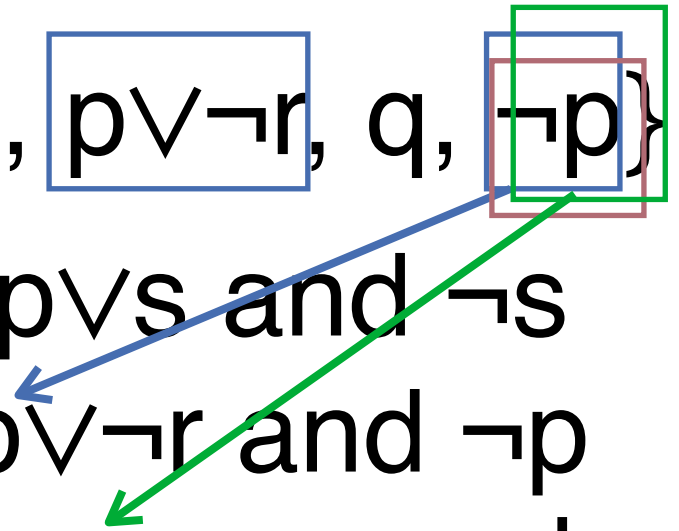
Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



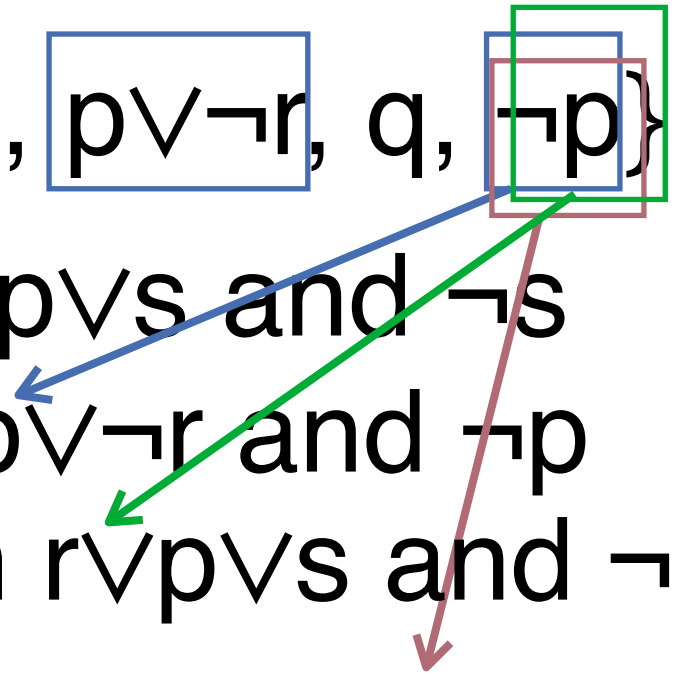
Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



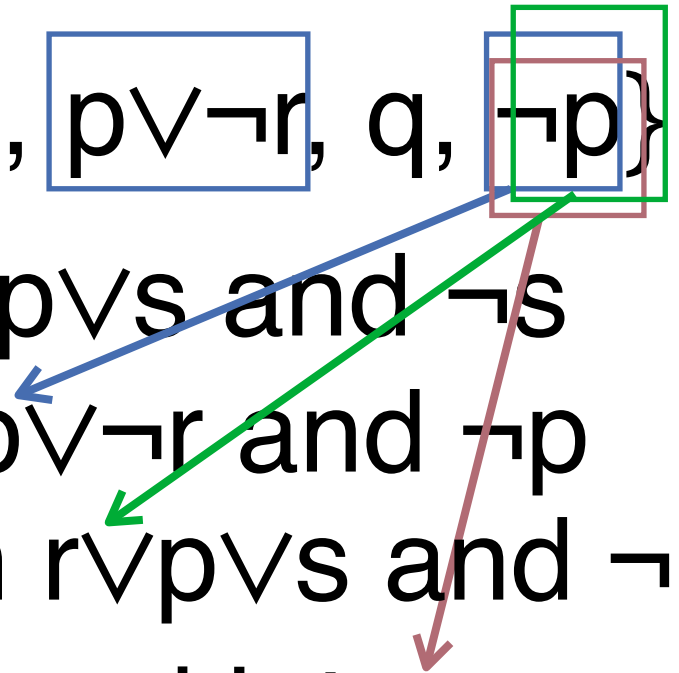
Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



Resolution between $r \vee p \vee s$ and $\neg s$

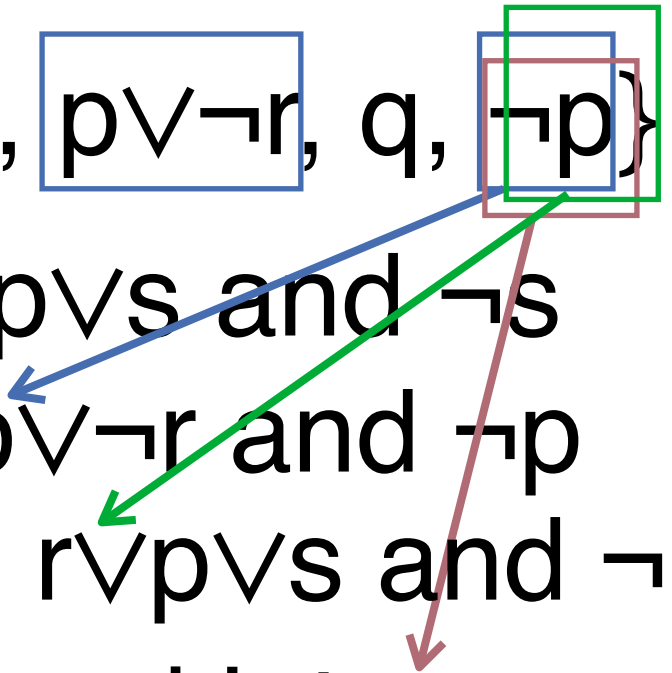
Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$\neg p \vee s$ can be subsumed into $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

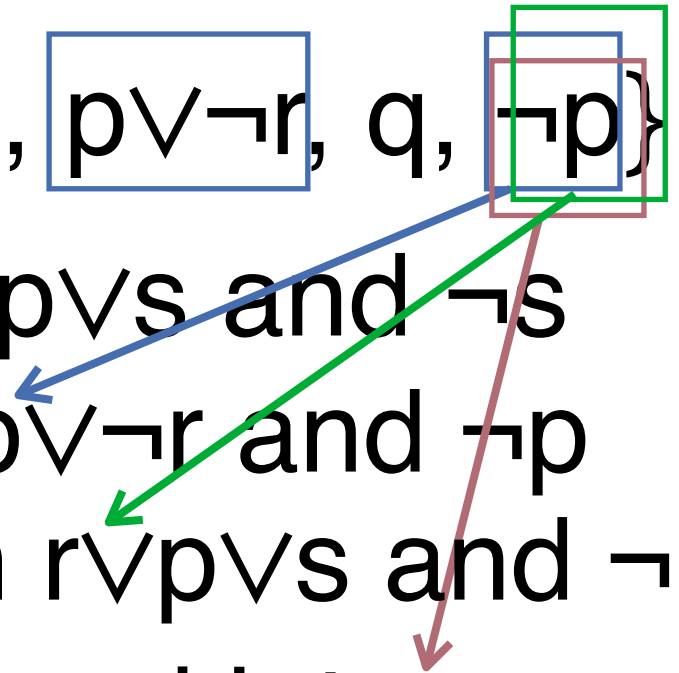
Resolution between $r \vee p \vee s$ and $\neg p$

$\neg p \vee s$ can be subsumed into $\neg p$

$f_{wert,1}(\{\neg p,\ \neg p \vee s\}, \{\neg p\}) = 0$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

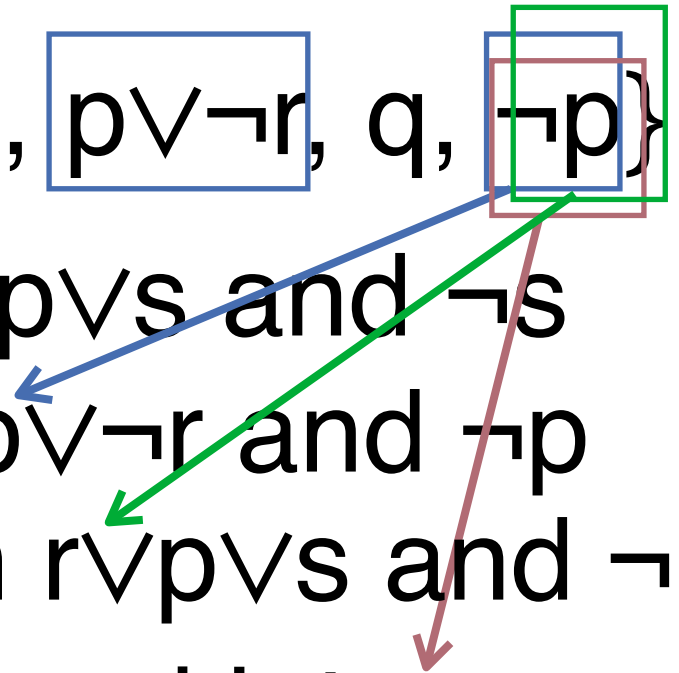
$\neg p \vee s$ can be subsumed into $\neg p$

$f_{wert,1}(\{\neg p,\ \neg p \vee s\}, \{\neg p\}) = 0$

$f_{wert,1}(\{p \vee \neg r,\ \neg p\}, \{p \vee \neg r,\ \neg p,\ \neg r\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$\neg p \vee s$ can be subsumed into $\neg p$

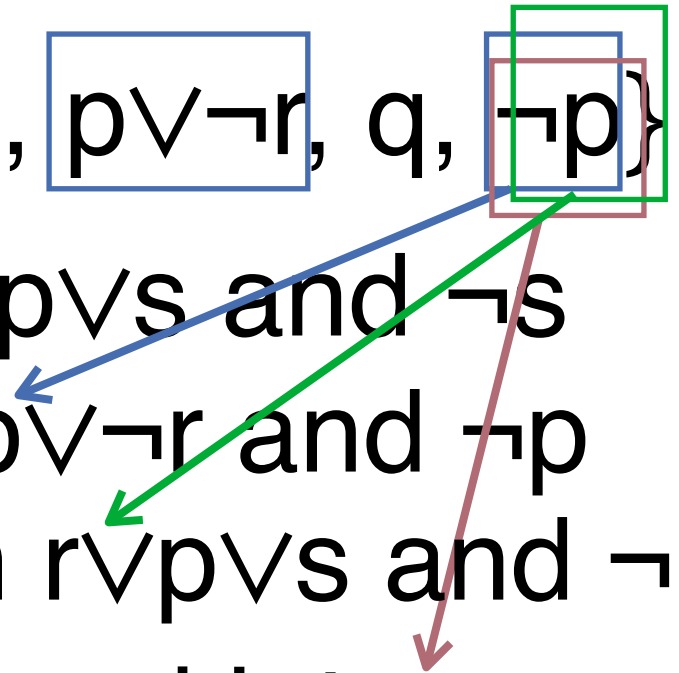
$f_{wert,1}(\{\neg p,\ \neg p \vee s\}, \{\neg p\}) = 0$

$f_{wert,1}(\{p \vee \neg r,\ \neg p\}, \{p \vee \neg r,\ \neg p,\ \neg r\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$\neg p \vee s$ can be subsumed into $\neg p$

$$f_{wert,1}(\{\neg p, \neg p \vee s\}, \{\neg p\}) = 0$$

$$f_{wert,1}(\{p \vee \neg r, \neg p\}, \{p \vee \neg r, \neg p, \neg r\}) = 1$$

$$f_{wert,1}(\{r \vee p \vee s, \neg s\}, \{r \vee p \vee s, \neg s, r \vee p\}) = 2$$

$$f_{wert,1}(\{r \vee p \vee s, \neg p\}, \{r \vee p \vee s, \neg p, r \vee s\}) = 2$$

$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

$s_4 = \{r \vee p \vee s, \neg p \vee s, \neg s, p \vee \neg r, q, \neg p\}$

$$s_4 = \{r \vee p \vee s,\ \neg p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$$

$$s_5 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$$

$s_5 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{p \vee \neg r, \neg p\}, \{p \vee \neg r, \neg p, \neg r\}) = 1$

$f_{wert,1}(\{r \vee p \vee s, \neg s\}, \{r \vee p \vee s, \neg s, r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s, \neg p\}, \{r \vee p \vee s, \neg p, r \vee s\}) = 2$

$s_5 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $p \vee \neg r$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{p \vee \neg r,\ \neg p\}, \{p \vee \neg r,\ \neg p,\ \neg r\}) = 1$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_5 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p\}$

$s_5 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p\}$

$s_5 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p\}$

$s_6 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p, \neg r\}$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$

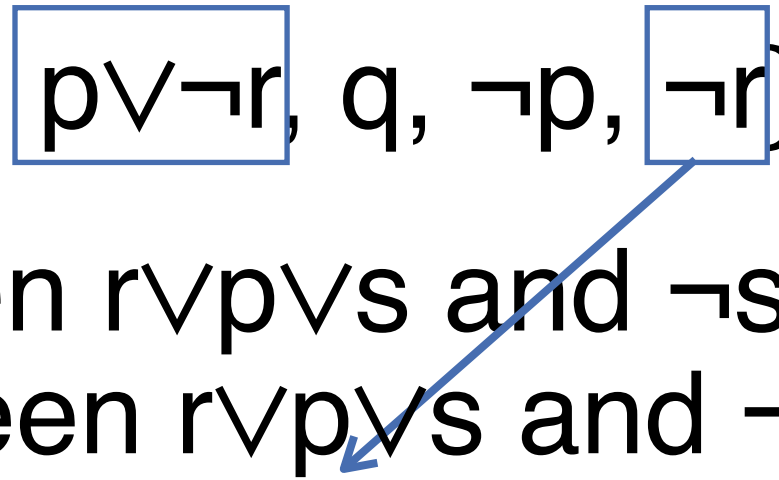
Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



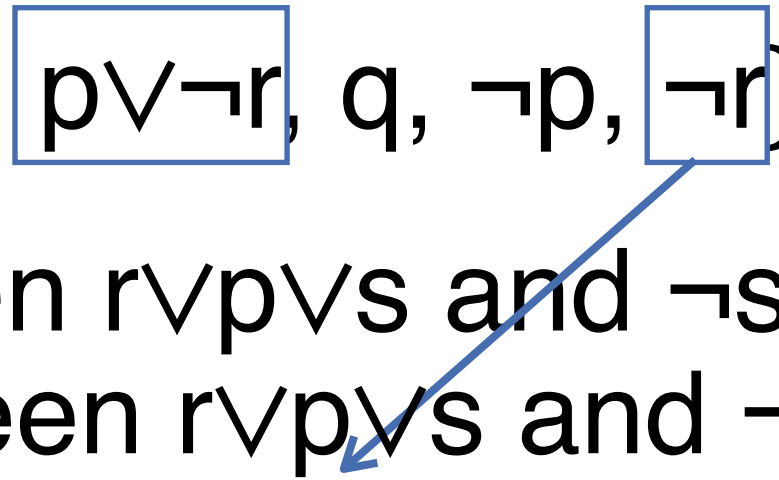
Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$

Resolution between $r \vee p \vee s$ and $\neg s$

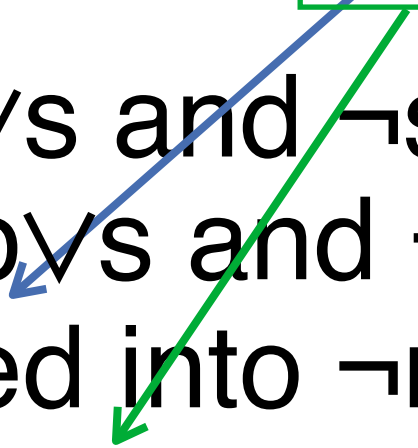
Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



Resolution between $r \vee p \vee s$ and $\neg s$

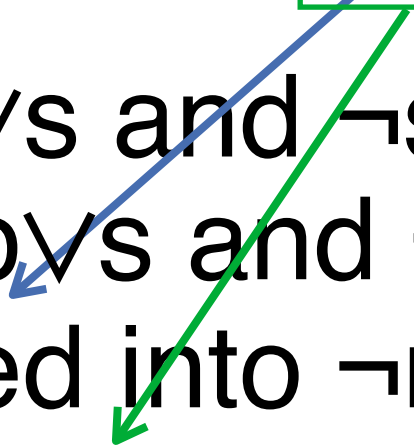
Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

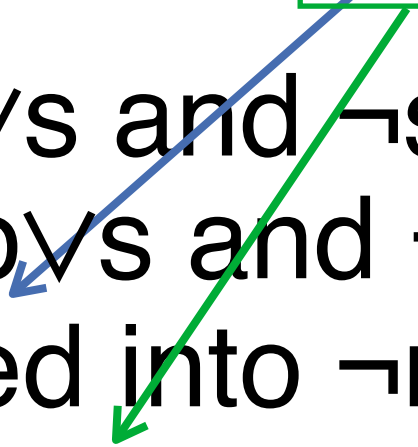
$p \vee \neg r$ can be subsumed into $\neg r$

Resolution between $r \vee p \vee s$ and $\neg r$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

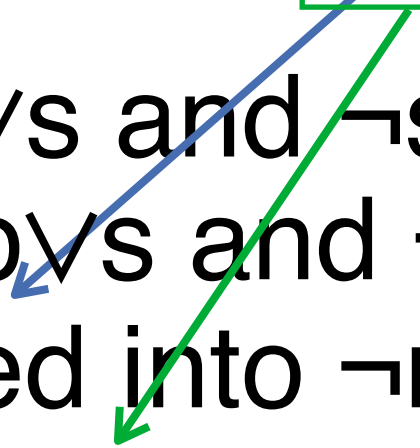
Resolution between $r \vee p \vee s$ and $\neg r$

$f_{wert,1}(\{\neg r,\ p \vee \neg r\}, \{\neg r\}) = 0$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

Resolution between $r \vee p \vee s$ and $\neg r$

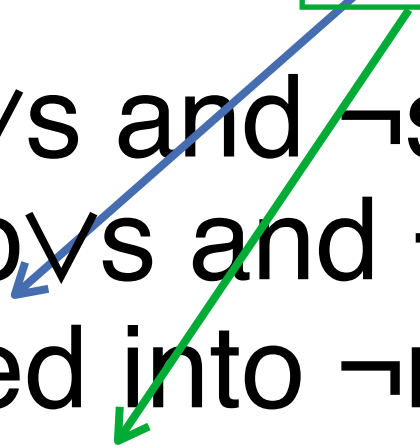
$$f_{wert,1}(\{\neg r,\ p \vee \neg r\}, \{\neg r\}) = 0$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg r\}, \{r \vee p \vee s, \neg r,\ p \vee s\}) = 2$$

$s_6 = \{r \vee p \vee s,\ \neg s,\ p \vee \neg r,\ q,\ \neg p,\ \neg r\}$



Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

$p \vee \neg r$ can be subsumed into $\neg r$

Resolution between $r \vee p \vee s$ and $\neg r$

$f_{wert,1}(\{\neg r,\ p \vee \neg r\}, \{\neg r\}) = 0$

$f_{wert,1}(\{r \vee p \vee s,\ \neg s\}, \{r \vee p \vee s, \neg s,\ r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg p\}, \{r \vee p \vee s, \neg p,\ r \vee s\}) = 2$

$f_{wert,1}(\{r \vee p \vee s,\ \neg r\}, \{r \vee p \vee s, \neg r,\ p \vee s\}) = 2$

$s_6 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p, \neg r\}$

$s_6 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p, \neg r\}$

$s_6 = \{r \vee p \vee s, \neg s, p \vee \neg r, q, \neg p, \neg r\}$

$s_7 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r\}$

$s_7 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$f_{wert,1}(\{r \vee p \vee s, \neg s\}, \{r \vee p \vee s, \neg s, r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s, \neg p\}, \{r \vee p \vee s, \neg p, r \vee s\}) = 2$

$f_{wert,1}(\{r \vee p \vee s, \neg r\}, \{r \vee p \vee s, \neg r, p \vee s\}) = 2$

$s_7 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r\}$

Resolution between $r \vee p \vee s$ and $\neg s$

Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$f_{wert,1}(\{r \vee p \vee s, \neg s\}, \{r \vee p \vee s, \neg s, r \vee p\}) = 2$

$f_{wert,1}(\{r \vee p \vee s, \neg p\}, \{r \vee p \vee s, \neg p, r \vee s\}) = 2$

$f_{wert,1}(\{r \vee p \vee s, \neg r\}, \{r \vee p \vee s, \neg r, p \vee s\}) = 2$

$s_7 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r\}$

$s_7 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r\}$

$s_7 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r\}$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

$S_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$S_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, \boxed{r \vee p}\}$

Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

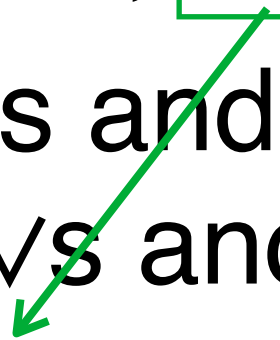
Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

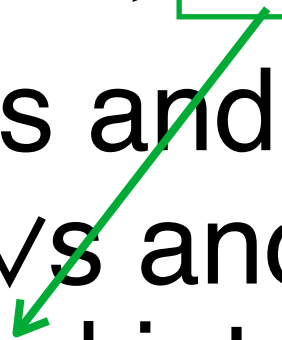
$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$



$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

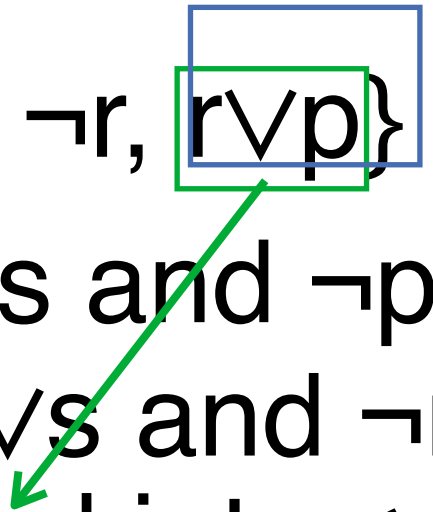


Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

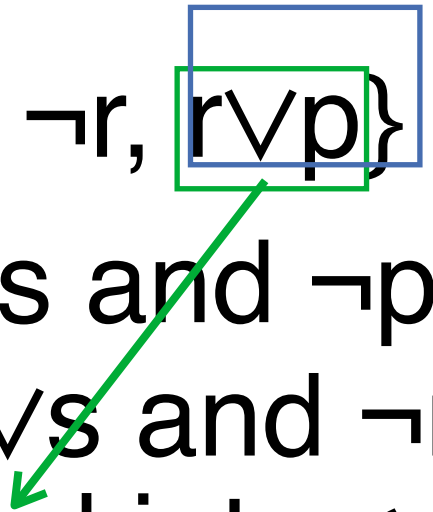


Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

$S_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

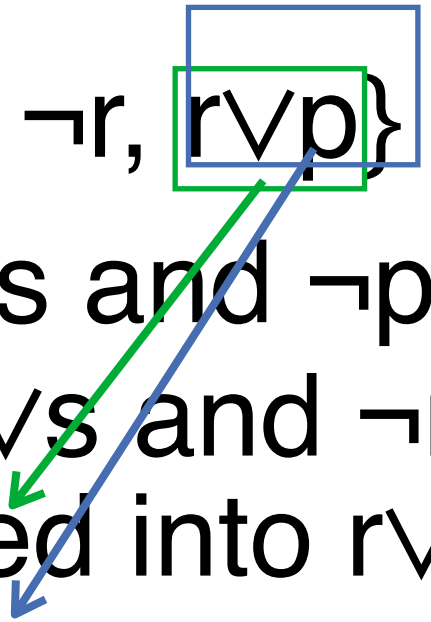


Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

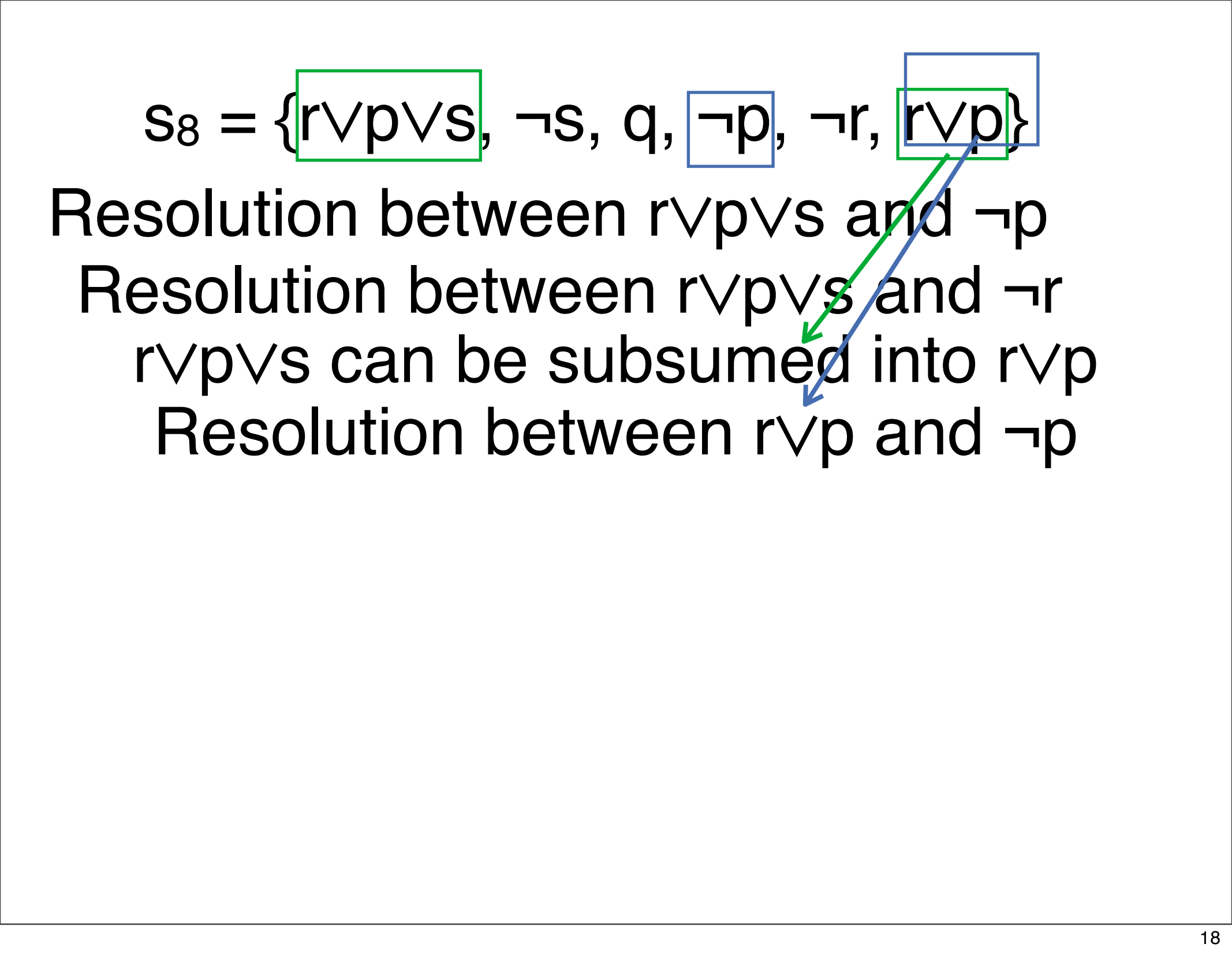


Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



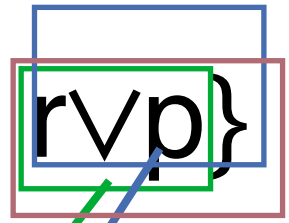
Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



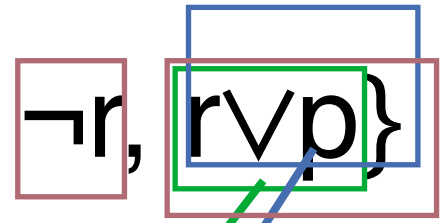
Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



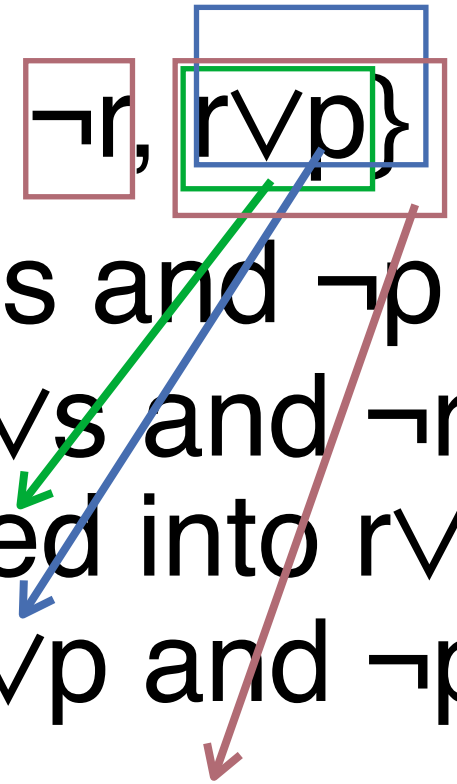
Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



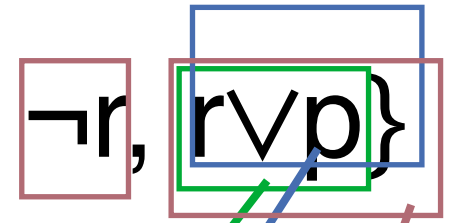
Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



Resolution between $r \vee p \vee s$ and $\neg p$

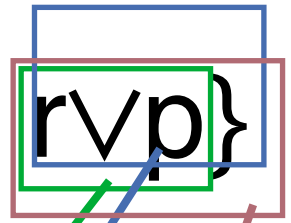
Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$s_8 = \{r \vee p \vee s,\ \neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$



Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

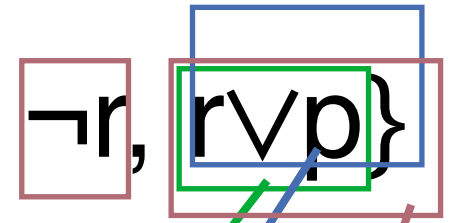
$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p \vee s,\ r \vee p\}, \{r \vee p\}) = 0$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

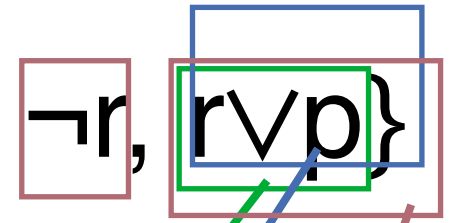
Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p \vee s, r \vee p\}, \{r \vee p\}) = 0$

$f_{wert,1}(\{r \vee p, \neg p\}, \{r \vee p, \neg p, r\}) = 1$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$



Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

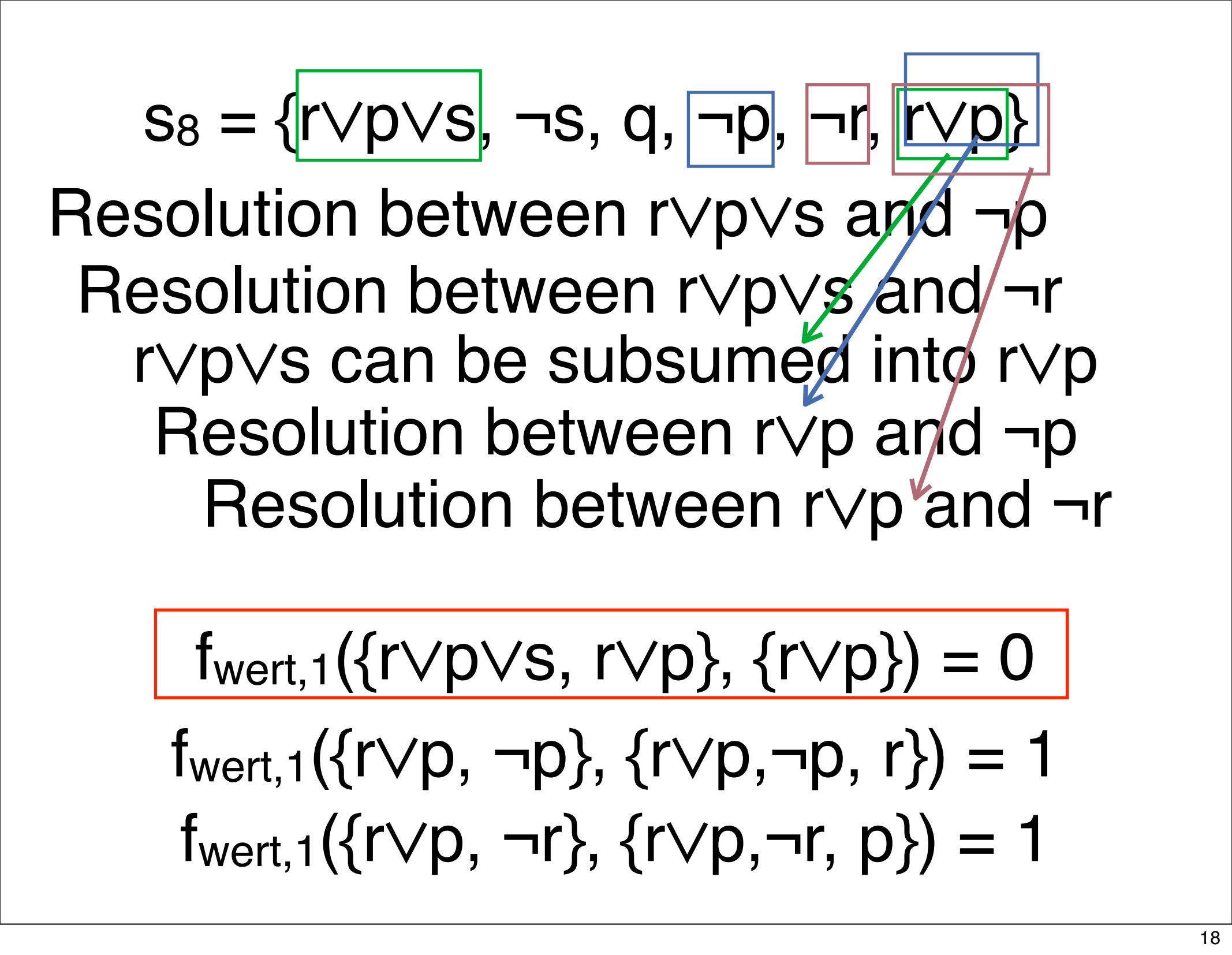
Resolution between $r \vee p$ and $\neg r$

$$f_{wert,1}(\{r \vee p \vee s, r \vee p\}, \{r \vee p\}) = 0$$

$$f_{wert,1}(\{r \vee p, \neg p\}, \{r \vee p, \neg p, r\}) = 1$$

$$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$$

$s_8 = \{r \vee p \vee s,\ \neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$



Resolution between $r \vee p \vee s$ and $\neg p$

Resolution between $r \vee p \vee s$ and $\neg r$

$r \vee p \vee s$ can be subsumed into $r \vee p$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$$f_{wert,1}(\{r \vee p \vee s,\ r \vee p\}, \{r \vee p\}) = 0$$

$$f_{wert,1}(\{r \vee p,\ \neg p\}, \{r \vee p, \neg p,\ r\}) = 1$$

$$f_{wert,1}(\{r \vee p,\ \neg r\}, \{r \vee p, \neg r,\ p\}) = 1$$

$S_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

$$s_8 = \{r \vee p \vee s,\ \neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$s_9 = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

$s_9 = \{\neg s, q, \neg p, \neg r, r \vee p\}$

$f_{wert,1}(\{r \vee p \vee s, \neg p\}, \{r \vee p \vee s, \neg p, r \vee s\}) = 2$

$s_8 = \{r \vee p \vee s, \neg s, q, \neg p, \neg r, r \vee p\}$

$s_9 = \{\neg s, q, \neg p, \neg r, r \vee p\}$

$f_{wert,1}(\{r \vee p \vee s, \neg p\}, \{r \vee p \vee s, \neg p, r \vee s\}) = 2$

$f_{wert,1}(\{r \vee p \vee s, \neg r\}, \{r \vee p \vee s, \neg r, p \vee s\}) = 2$

$$s_8 = \{r \vee p \vee s,\ \neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$s_9 = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$f_{wert,1}(\{r \vee p \vee s,\ \neg r\},\ \{r \vee p \vee s, \neg r,\ p \vee s\}) = 2$$

$$s_8 = \{r \vee p \vee s,\ \neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$s_9 = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$s_9 = \{\neg s, q, \neg p, \neg r, r \vee p\}$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p, \neg p\}, \{r \vee p, \neg p, r\}) = 1$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_9 = \{\neg s, q, \neg p, \neg r, r \vee p\}$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p, \neg p\}, \{r \vee p, \neg p, r\}) = 1$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$$s_9 = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$s_9 = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$s_9 = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p\}$$

$$s_{10} = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p,\ r\}$$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

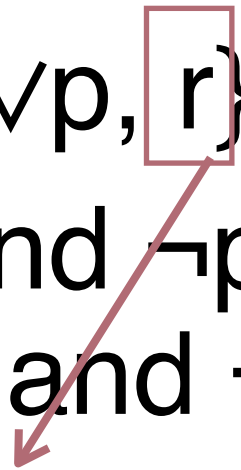
$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$

Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$

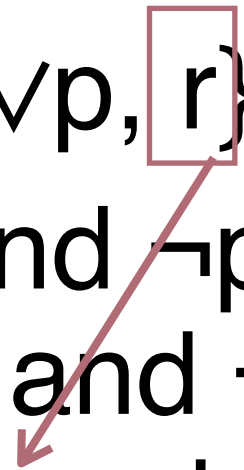


Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



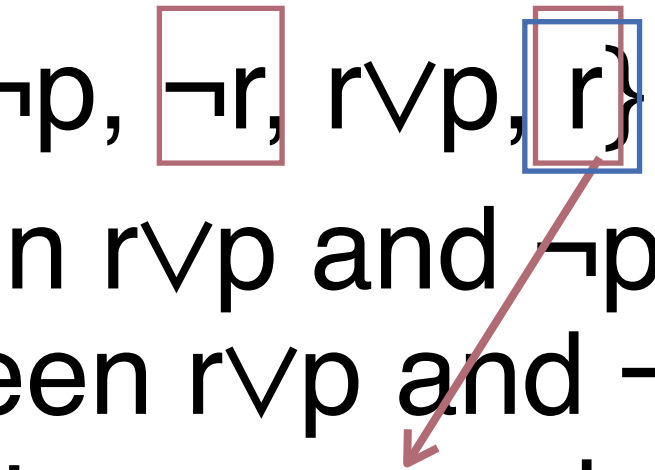
Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



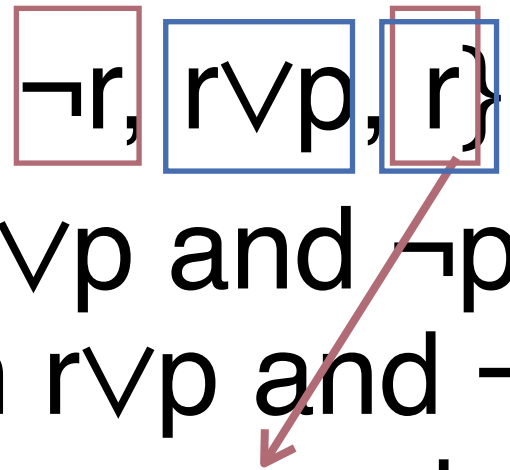
Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



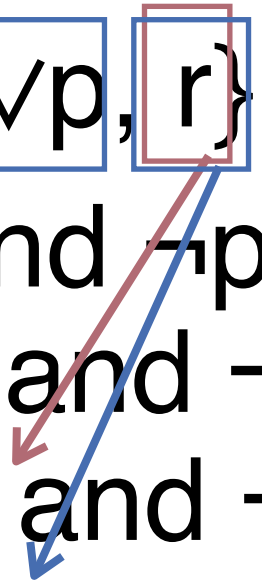
Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



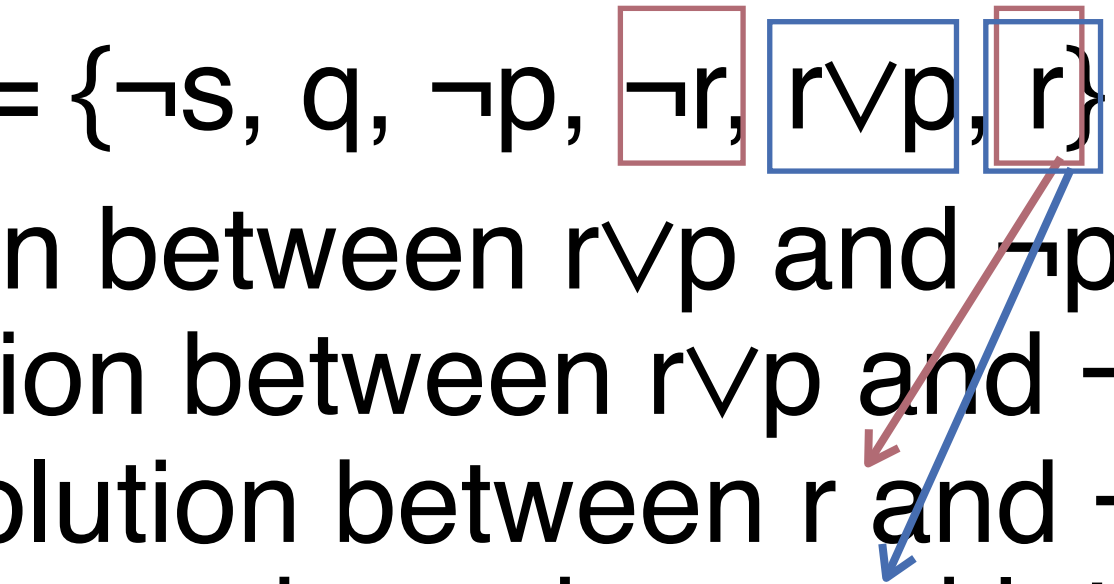
Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



Resolution between $r \vee p$ and $\neg p$

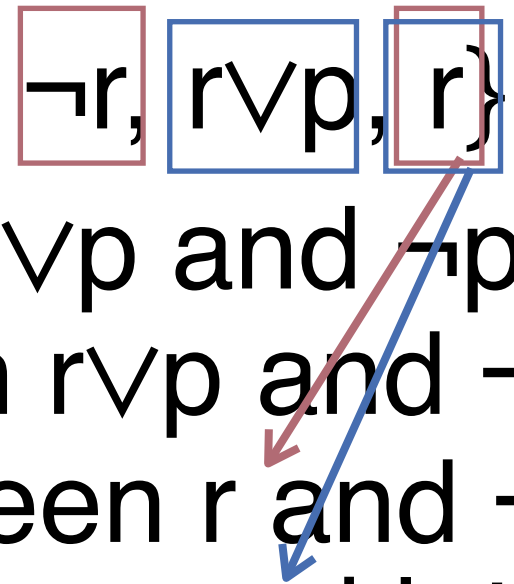
Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

$r \vee p$ can be subsumed into r

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

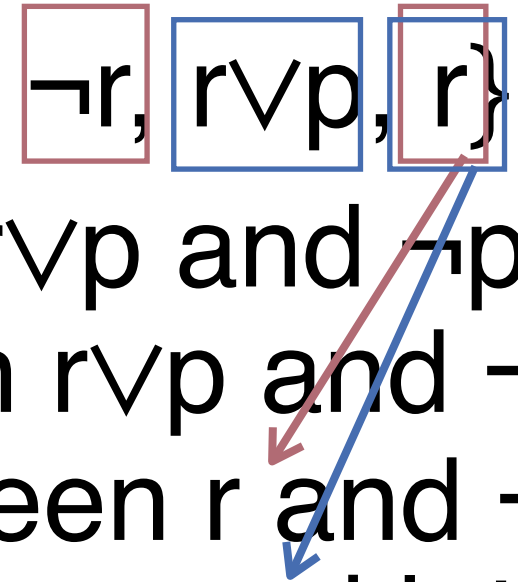
Resolution between r and $\neg r$

$r \vee p$ can be subsumed into r

$f_{wert,1}(\{\neg r, r\}, \{\square\}) = 0$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

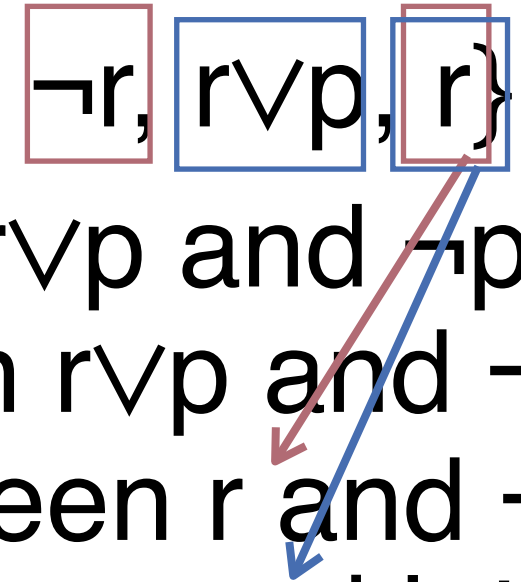
$r \vee p$ can be subsumed into r

$f_{wert,1}(\{\neg r, r\}, \{\square\}) = 0$

$f_{wert,1}(\{r \vee p, r\}, \{r\}) = 0$

$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$

$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$



Resolution between $r \vee p$ and $\neg p$

Resolution between $r \vee p$ and $\neg r$

Resolution between r and $\neg r$

$r \vee p$ can be subsumed into r

$$f_{wert,1}(\{\neg r, r\}, \{\square\}) = 0$$

$$f_{wert,1}(\{r \vee p, r\}, \{r\}) = 0$$

$$f_{wert,1}(\{r \vee p, \neg r\}, \{r \vee p, \neg r, p\}) = 1$$

$$s_{10} = \{\neg s, q, \neg p, \neg r, r \vee p, r\}$$

$$s_{10} = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p,\ r\}$$

$$s_{10} = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p,\ r\}$$

$$s_{11} = \{\neg s,\ q,\ \neg p,\ \neg r,\ r \vee p,\ r,\ \square\}$$

$s_{11} = \{\neg s, q, \neg p, \neg r, r \vee p, r, \square\}$

$s_{11} = \{\neg s, q, \neg p, \neg r, r \vee p, r, \square\}$

$$\mathcal{G}(s_{11}) = yes$$