## Review Questions for Reading \#5

1. What is a recurrence?

Note: This is something that you ideally learned about in MATH 271!
2. How (or why) are recurrences useful, when you are trying to bound the number of steps executed by a given recursive algorithm on a given input?
3. Describe a (reasonably simple) process that can sometimes to be used to discover the value of a recurrence being used to express the running time of a recursive algorithm.
4. Name (or describe) a proof technique this is useful for proving that given recurrence has a given "guessed" solution (or upper bound).
Note: Once again, this is something that you should definitely have learned about in MATH 271!
5. Describe a mistake that students sometimes make when they are asked to give recurrences for the running times of recursive algorithms.

