Reading Quiz Ch 3.6.1-3.6.3

- 1) Mathematical analysis uses concrete observational data.
 - A. True
 - B. False
- 2) The **step counting** method for analyzing efficiency is based on which model of computing?
 - A. Lambda calculus
 - B. the standard model
 - C. the Turing model
- 3) An algorithm will always have different step counts for instances of different sizes.
 - A. True
 - B. False
- 4) If an algorithm's pseudocode has an if-else branch
 - A. The algorithm will only have one T(n) because only the worst-case execution branch will be counted.
 - B. The algorithm may have more than one T(n) because every execution branch must be counted.
 - C. The algorithm may have more than one T(n) because steps can only be counted for specific instances.
- 5) Loops always have a step count of n multiplied by some constant ≥ 1 .
 - A. True
 - B. False