2.3 - Deductive Reasoning

1) In your own words, what is the difference between inductive reasoning and deductive reasoning?

Make a valid conclusion in the situation.

- 2) If the measure of an angle is 90° , then it is a right angle. The measure of $\angle A$ is indeed 90° .
- 3) If x > 12, then -x < -12. The value of x is 15.

In #4 -#12, determine the logical conclusion and state which law you used: Law of Detachment (LOD), Law of Contrapositive (LOC), or Law of Syllogism (LOS). If no conclusion can be drawn, write "no conclusion."

- 4) People who vote for Jane Wannabe are smart people. I voted for Jane Wannabe.
- 5) If Rae is the driver today then Maria is the driver tomorrow. Ann is the driver today.
- 6) If a shape is a circle, then it never ends. If it never ends, then it never starts. If it never starts, then it doesn't exist. If it doesn't exist, then we don't need to study it.
- 7) If you text while driving, then you are unsafe. You are a safe driver.



