1. Converse: If I am a senior, then I will graduate in the spring.

   Write the Inverse: ________________________________________________

   Write the Contrapositive:__________________________________________

   Write the Conditional: ____________________________________________

2. If my mother lets me go to a movie, then I will be happy.
   My mom lets me go to a movie.
   A. Conclusion? __________________________________________________
   B. Law of logic? __________________________________________________

3. Write the following statement as a biconditional.

   All basketball players are tall.
   _________________________________________________________________

4. Write the conclusion that follows:

   If Sam’s girlfriend breaks up with him, then he will be sad.
   If Sam gets a ticket, then Sam is grounded.
   If Sam speeds, then Sam gets a ticket.
   I Sam can’t go to homecoming, then his girlfriend will break up with him.
   If Sam is grounded, then he can’t go to homecoming.

   Conclusion: ______________________________________________________

5. Use the diagram to determine true or false.
   a. $\overline{NM}$ intersects plane W at point N.
   b. plane w and plane x intersect at $\overline{JL}$