Quiz 3

Part A: [2] True/False. Circle T if the statement is *always* true, otherwise circle F. No partial credit is given.

T   F   All squares are similar.
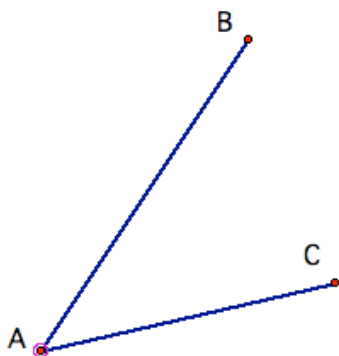
T   F   If $A \sim B$, then $A \cong B$.

T   F   Given $\triangle ABC$ and $\triangle A'B'C'$, where $\bar{AB} = \bar{A'B'}$, $\bar{AC} = \bar{A'C'}$, $\bar{BC} = \bar{B'C'}$, then $\triangle ABC \cong \triangle A'B'C'$.

T   F   If $A \cong B$, then $A = B$.

Part B: Show *all* your work on the following. A right answer with no supporting work will receive no credit.

1. [3] Use only your compass and straightedge and copy the following angle. (Be sure to leave traces of your arcs so that I know how you did it.)

2. [5] Consider the triangle ABC below. *Show* (justify much we did in class on Tuesday) that any other triangle $A'B'C'$ with the properties AB=A'B', AC=A'C', and BC=B'C', is congruent to triangle ABC.