BECA / Dr. Huson / Geometry 01-Intro Name:
pset ID: 7

**1-4HW-Segment-addition**

1. I have a compass, ruler, protractor, notebook, and folder (circle one). Yes No

2. Use each term according to its geometric meaning: "sketch", "draw", "construct".

   (a) _____ is to make a freehand diagram showing important features.

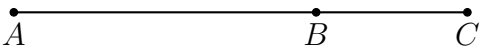
   (b) _____ is to depict with accurate measures using ruler, protractor, and compass.

   (c) _____ is a formal, logical process to create geometric figures using only a straightedge and compass.

3. Two or more line segments of equal measure are _____.

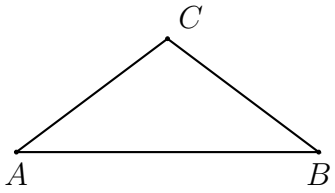
4. Given $\overline{ABC}$, $AB = 10$, and $BC = 4$.

   (a) Find $AC$.




   (b) The postulate used in this problem is the _____.

5. Given $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$. On the diagram mark the congruent line segments with tick marks.

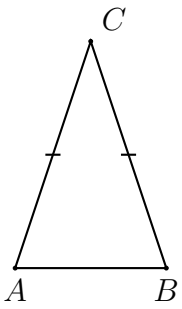



6. Given line segment $\overline{AB}$ with midpoint $M$, that is, $\overline{AM} \cong \overline{BM}$. $AM = 2$ cm. Find the length of $\overline{AB}$.

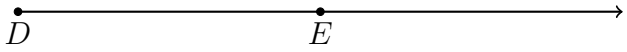

7. Points that are all located on the same line are _____.

8. Given the points $X$ and $Y$, draw $\overrightarrow{YX}$.


9. Given $\triangle ABC$ write down two congruent line segments using proper notation.




10. Given $\overrightarrow{DE}$, construct circle $E$ with radius $DE$.




Spicy: Complete the construction of an equilateral triangle with one side $\overline{DE}$.