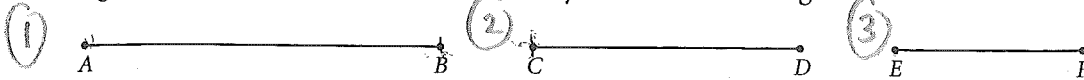


3.1 Homework

Name _____

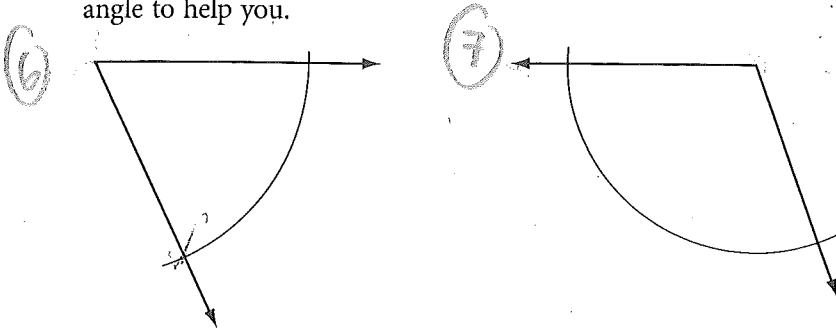
Using only a compass and a straightedge, duplicate the three line segments shown below. Label them as they're labeled in the figure.



4) Use the segments from Exercise 1 to construct a line segment with length $AB + CD$. (b)

5) Use the segments from Exercise 1 to construct a line segment with length $AB + 2EF - CD$.

Use a compass and a straightedge to duplicate each angle. There's an arc in each angle to help you.



8) Draw an obtuse angle. Label it LGE , then duplicate it.

9 Draw two acute angles on your paper. Construct a third angle with a measure equal to the sum of the measures of the first two angles. Remember, you cannot use a protractor—use a compass and a straightedge only.

10 Construct an equilateral triangle. Each side should be the length of this segment.



Hint for #4: Copy the first segment onto a ray. Copy the second segment immediately after the first.