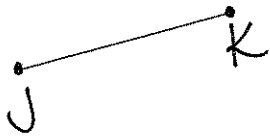


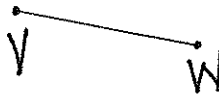
1.4 ~ Basic Constructions

Copy each segment. Name the duplicate using the next two letters in the alphabet.

1)



2)



Construct a line segment the given number of times longer than the given segment.

3)

2 times as long



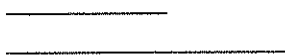
4)

3 times as long



Construct a line segment whose length is equal to the sum of the lengths of the given line segments.

5)

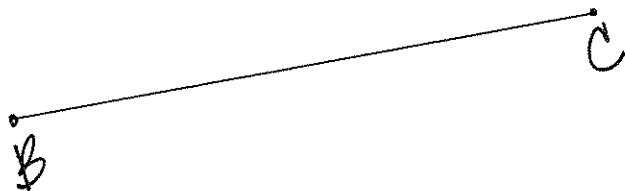


6)

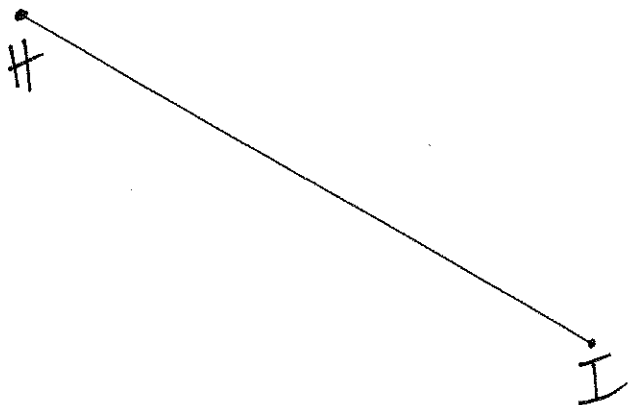


Construct the segment bisector and name it \overleftrightarrow{XY} . Locate the midpoint and label it M . Name all the congruent segments. Use the congruence symbol to write your answers.

7)

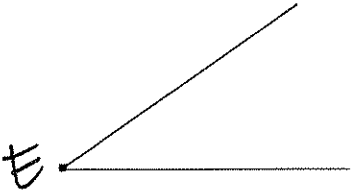


8)

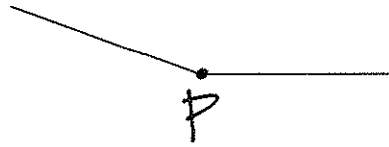


Copy of each angle. Name the duplicate using the next letter in the alphabet.

9)

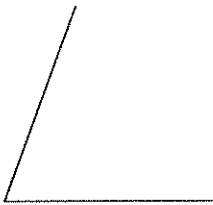


10)



Construct an angle whose measure is twice that of the angle given.

11)



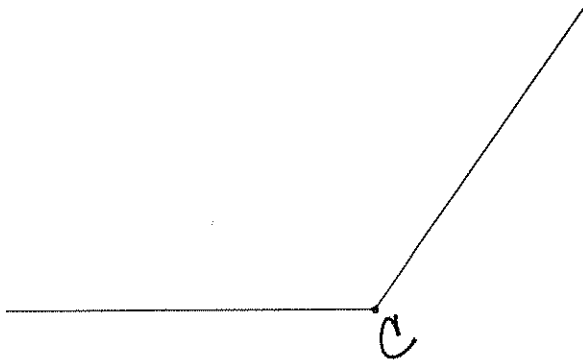
Construct an angle whose measure is equal to the sum of the measures of the angles given.

12)



Construct the angle bisector and name it \overrightarrow{CD} . Name the intersections M and N . Name all congruent angles in the figure. Use the congruence symbol and name the angles so there is no confusion about what you mean.

13)



14)

