AGS 1 Name: _____ Period: _____ Date: _____

Assignment 8.6 Geometry Constructions & Congruence

Find the distance and the slope between the given points.

1. (-2, 8) and (3, -4)

   Slope Distance

2. (-7, -3) and (1, 5)

   Slope Distance

3. (-10, 31) and (20, 11)

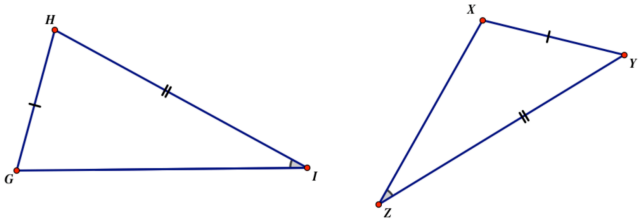
   Slope Distance

4. (16, -45) and (-34, 75)

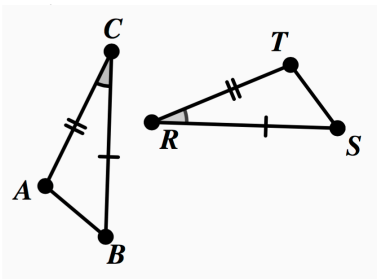
   Slope Distance

5. Make a basic proof of why these triangles are congruent.

a.

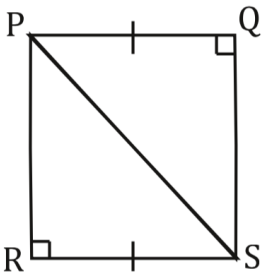


b.



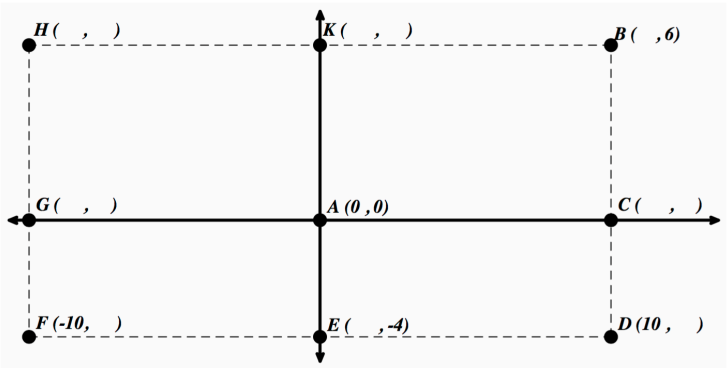
5. Make a basic proof of why these triangles are congruent.

c.



Refresh Your Memory

6. Use the given information to find the coordinates of each point. Then determine the distance between indicated points.



A: F:

B: G:

C: H:

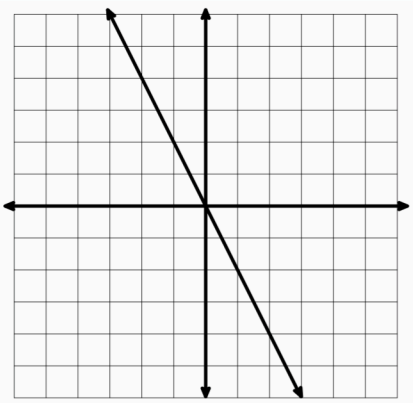
D: K:

E:

Find the distance between H and B:

Find the distance between B and D:

7. Use the given graph to answer the following questions.



a. Write the equation of the given line.

b. Graph a line that is parallel and is 3 units higher.

c. Give the new y-intercept as an ordered pair.

d. Write the equation for the new line.