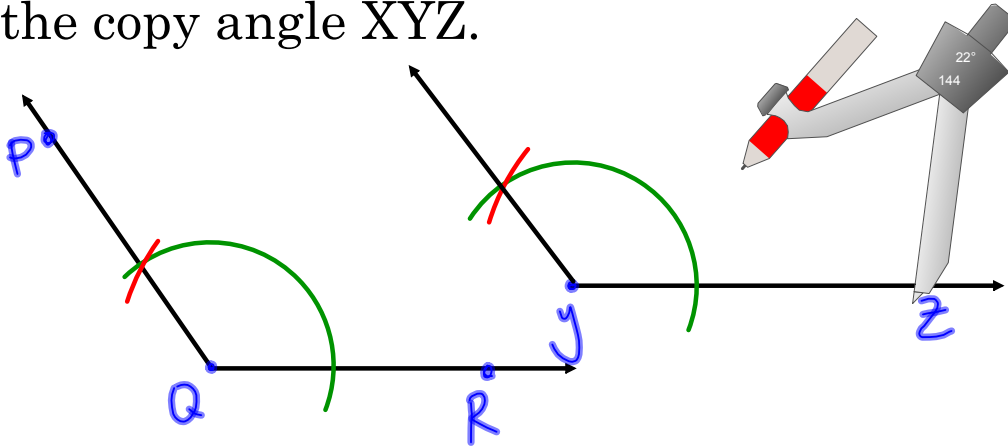## Honors Geometry - 8/25/17 - Warm Up

1. Draw obtuse angle PQR. Copy angle PQR and call the copy angle XYZ.
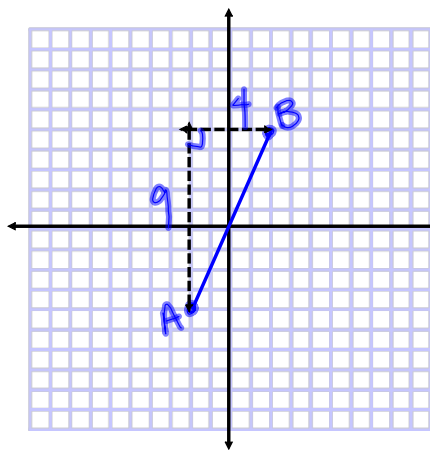
P

Q   R

y   z

22°
144

2. Draw segment AB. Then CONSTRUCT the perpendicular bisector of the segment.

1.7 - Midpoints and Distance in the Plane

distance formula

What is the distance between points A(-2, -4) and B(2, 5) in the coordinate plane??

A (-2, -4)
B (2, 5)

4 B

9

A

$$d = \sqrt{(2--2)^2 + (5-4)^2}$$

$$d = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$$

$$9^2 + 4^2 = d^2$$

$$81 + 16 = d^2$$

$$d = \sqrt{97} \approx 9.8$$