

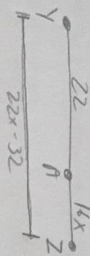
Name: KEY

Date: _____

Period: _____ Geometry w. Trig.

Unit 1 Quiz #1 Optional Review

1. Given A is between Y and Z and $YA = 22$ in., $AZ = (16x)$ in., and $YZ = (22x - 32)$ in., find AZ .



$$22 + 16x = 22x - 32$$

$$AZ = 16(9) = 144 \text{ in.}$$

$$54 = 6x$$

$$9 = x$$

$$AZ = 144 \text{ in.}$$

Use the figure to the right to answer questions #2-5.

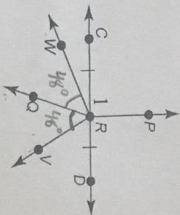
2. Use the given information to find the value of y .

Given: $\angle WRQ \cong \angle QRV$
 $m\angle WRQ = 48^\circ$
 $m\angle QRV = (7y + 6)^\circ$

$$7y + 6 = 48$$

$$7y = 42$$

$$y = 6$$



3. What is another way to name $\angle 1$? $\angle CRP$

4. Can I name $\angle 1$, angle R ? Why or why not? No, R is vertex of more than 1 angle

5. Which of the following statements are true? Check all that apply.

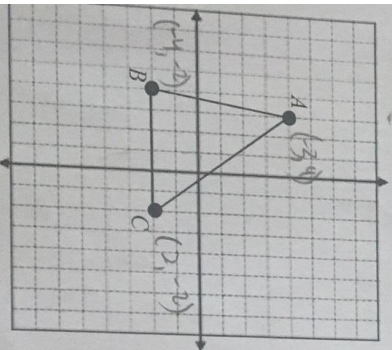
$\overline{CR} \cong \overline{DR}$

$m\angle DRV + m\angle VRQ = m\angle DRQ$

$\overline{CR} = \overline{DR}$

The sides of $\angle CRV$ are \overline{CR} and \overline{VR} .

6. Find the perimeter of the figure below.



$$AB = \sqrt{(1-4+4-3)^2 + (-2-4)^2} \quad BC = 6$$

$$= \sqrt{(-1)^2 + (-6)^2}$$

$$= \sqrt{1 + 36}$$

$$= \sqrt{37}$$

$$AC = \sqrt{(2+3)^2 + (-2-4)^2}$$

$$= \sqrt{(5)^2 + (-6)^2}$$

$$= \sqrt{25 + 36}$$

$$= \sqrt{61}$$

Perimeter = $\sqrt{37} + \sqrt{61} + 6$ Units