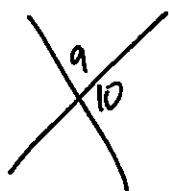


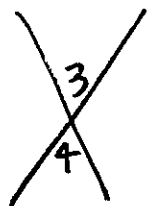
CHAPTER 2

106. Find the measure of each numbered angle and name the theorem(s)/postulate(s) used that justify your work.
- a. $m\angle 9 = 3x + 12$ and $m\angle 10 = x - 24$ b. $m\angle 3 = 2x + 23$ and $m\angle 4 = 5x - 112$



$$m\angle 9 = 156^\circ$$

$$m\angle 10 = 24^\circ$$

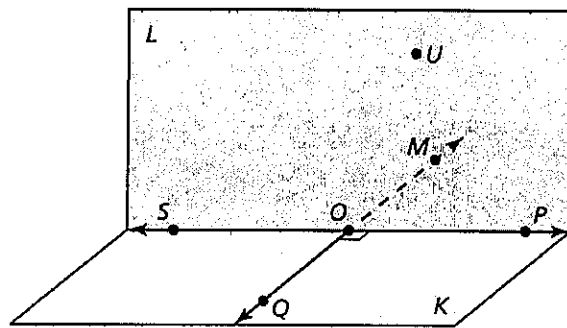


$$m\angle 3 = 113^\circ$$

$$m\angle 4 = 113^\circ$$

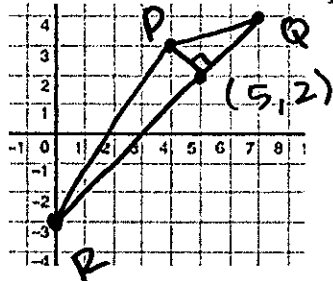
107. Use the figure to determine whether you can or cannot conclude the statement given.

- a. Planes L and K intersect at $\overleftrightarrow{PS}$ **yes**
- b. Points U, M and O are coplanar **yes**
- c. $\angle QOP$ is a right angle **yes**
- d. $\overleftrightarrow{MQ}$ is in plane L **NO**
- e. $\overleftrightarrow{PS}$ and $\overleftrightarrow{MQ}$ intersect at point O **yes**



CHAPTER 3

108. Find the distance from point P to $\overleftrightarrow{RQ}$.



$$\sqrt{2}$$

109. Rectangle ABCD has a width of 8 yards and a length of 20 yards. This rectangle is enlarged by a scale factor of 2.5. What are the dimensions of the enlarged rectangle?

$$20 \text{ yd} \times 50 \text{ yd}$$

CHAPTER 4

110. $\triangle CDE$ is reflected in line a to create $\triangle C'D'E'$, then this triangle is reflected in line b to create $\triangle C''D''E''$. If the distance from E to E' is 10 cm and the distance from E' to line b is 16 cm, then...

- a. What is the distance between the two lines?

$$21 \text{ cm}$$

- b. What is the distance between E and E''?

$$42 \text{ cm}$$

