

Chapter 1 Review

1. Name a line that contains points T and P .

line g

2. Name the plane that contains $\overline{TN}$ and $\overline{QR}$.

plane S

3. Name three collinear points.

S, X, M

4. Name four noncoplanar points.

S, X, R, W

5. Find the length of the object.



4.2



7. Find the value of x and KL if K is between J and L .

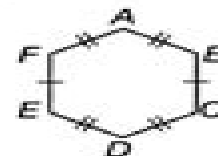
$JK = 2x$, $KL = x + 2$, and $JL = 5x - 10$

$$\begin{array}{c} J \quad 2x \quad K \quad x+2 \quad L \\ \hline 5x-10 \end{array}$$

$$\begin{aligned} 3x + 2 &= 5x - 10 \\ 12 &= 2x \\ \boxed{6 = x} \end{aligned}$$

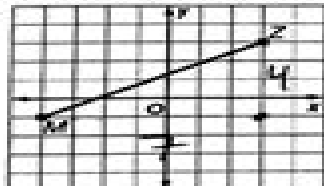
8. Jorge used the figure at the right to make a pattern for a mosaic he plans to inlay on a tabletop. Name all of the congruent segments in the figure.

$$\overline{FA} \cong \overline{AB} \cong \overline{ED} \cong \overline{DC} \quad , \quad \overline{FE} \cong \overline{BC}$$



9. Find the distance between each pair of points.

a.



$$\sqrt{7^2 + 4^2} = \sqrt{65}$$

b. $C(-2, -1)$, $K(8, 3)$

$$\begin{aligned} x^2 &= 10 \\ y^2 &= 4 \end{aligned}$$

$$\sqrt{4^2 + 10^2} = \sqrt{116}$$

10. Find the coordinates of the midpoint of a segment with the given endpoints.

a. $K(-9, 3)$, $H(5, 7)$

$$= \frac{-9}{2}, \frac{10}{2}$$

$$(-2, 5)$$

b. $W(-12, -7)$, $T(-8, -4)$

$$= \frac{-20}{2}, \frac{-11}{2}$$

$$(-10, -5\frac{1}{2})$$

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S Ashworth



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