

# Quiz Review!

## Sections 1.1 - 1.3

### Calculator allowed

Name 2 separate lines

$\overleftrightarrow{PS}$   $\overleftrightarrow{QP}$   $m$   $n$

Name 3 colinear points

$S, P, T$

Name 3 coplanar points

$V, S, P, T$

Name a line segment

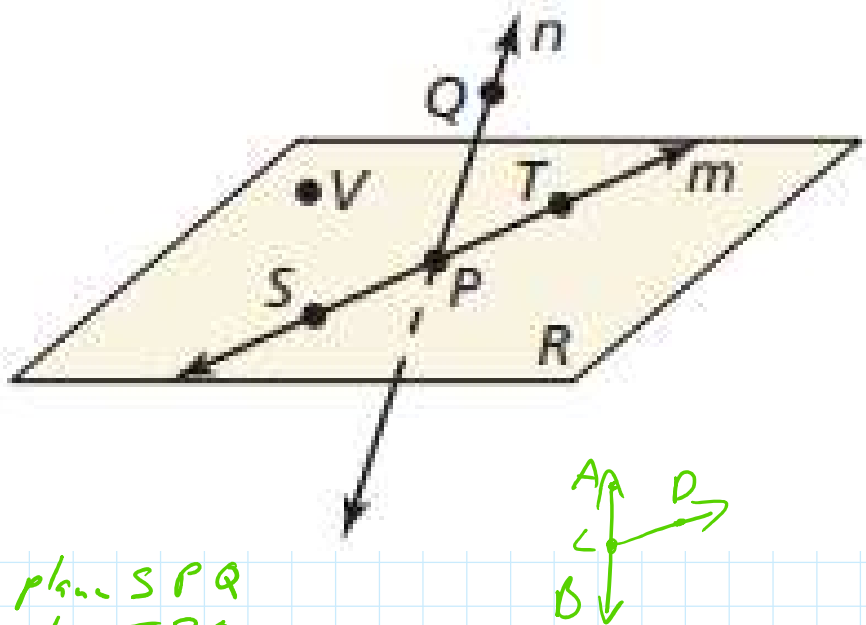
$\overline{SP}$   $\overline{PT}$   $\overline{ST}$

Give 2 names of the plane

plane  $R$  / plane  $SVT$  / plane  $SPQ$   
 plane  $TPQ$

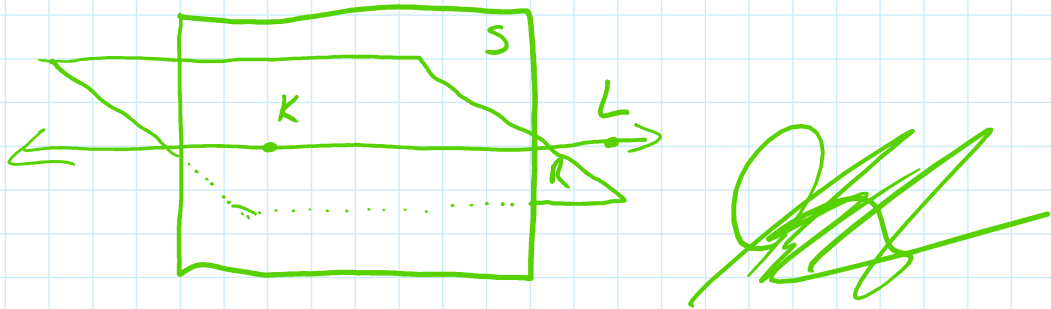
Name 1 ray.

$\overrightarrow{PQ}$



Sketch the figure described.

Plane R intersecting with plane S at  $\overleftrightarrow{KL}$



Find  $DF$ .



$$DF = 58$$

$$\overline{DF} = 58$$

$$\overline{DF} \cong \overline{DE} + \overline{EF}$$

$$23 + 35 = 58$$

b. Find  $GH$ .

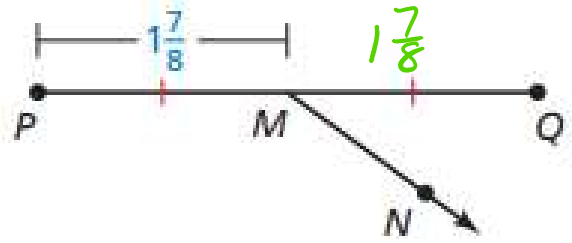


$$GH = 15$$

$$36 - 21 = 15$$

Name the segment bisector

$M$   $\overrightarrow{MN}$   
 $\overline{MN}$   $\overline{NM}$



Find  $PQ$

find  $PQ$

$$\frac{7}{8} + \frac{7}{8}$$

$$\frac{15}{8} + \frac{15}{8}$$

$$\frac{30}{8}$$

$$PQ = \frac{15}{4}$$

$$\frac{7}{8} + \frac{7}{8}$$

$$2 \frac{14}{8}$$

$$3 \frac{6}{8}$$

$$3 \frac{3}{4}$$

Find RS.

$$4x + 3 = 6x - 12$$

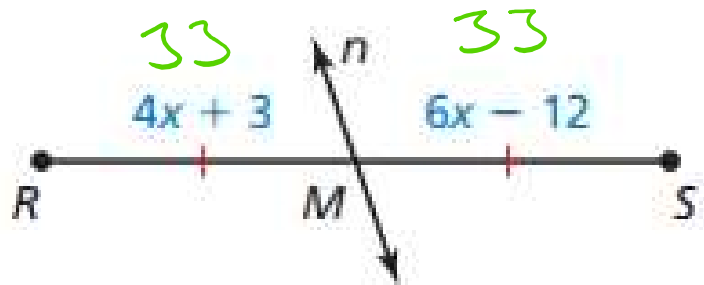
$$-4x \quad -4x$$

$$3 = 2x - 12$$

$$+12 \quad +12$$

$$\frac{15}{2} = \frac{2x}{2}$$

$$\frac{15}{2} = x$$



$$4x + 3 ; x = \frac{15}{2}$$

$$4\left(\frac{15}{2}\right) + 3$$

$$\frac{4}{1} \cdot \frac{15}{2} + 3$$

$$RS = 66$$

$$\frac{60}{2} + 3$$

$$30 + 3$$

$$33$$

The endpoints of  $\overline{AB}$  are  $A(1, 2)$  and  $B(7, 8)$ . Find the coordinates of the midpoint  $M$ .

$$M_{(x,y)} = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$x_m = \frac{1+7}{2} \quad y_m = \frac{2+8}{2}$$

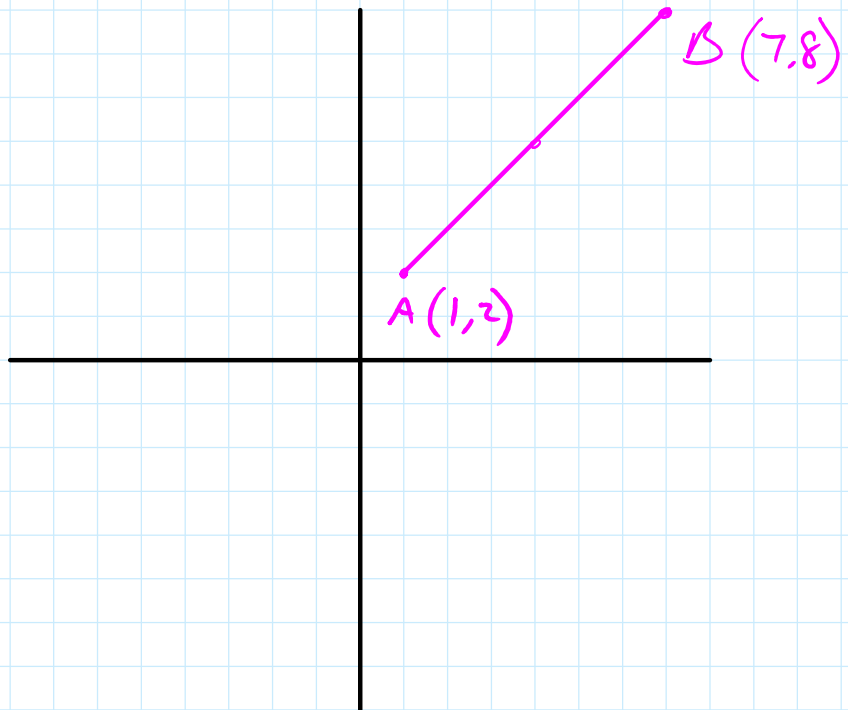
$$\frac{8}{2}$$

$$\frac{10}{2}$$

$$x_m = 4$$

$$y_m = 5$$

$$M(4, 5)$$



The midpoint of  $\overline{VW}$  is  $M(-1, -2)$ . One endpoint is  $W(4, 4)$ . Find the coordinates of endpoint  $V$ .

$$M_{(x,y)} = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$2(-1) = \frac{4 + x_2}{2} \cdot 2$$

$$2(-2) = \frac{4 + y_2}{2} \cdot 2$$

$$-2 = 4 + x_2$$

$$-4 \quad -4$$

$$-4 = 4 + y_2$$

$$-4 \quad -4$$

$$V(-4, -8)$$

$$\begin{array}{cc} -4 & -4 \\ -6 = x_2 & \end{array}$$

$$\begin{array}{cc} -4 & -4 \\ -8 = y_2 & \end{array}$$

Find the distance between the two points.

$$\begin{array}{cc} 2 & 1 \\ G(-5, 4) & \text{and } H(2, 6) \end{array}$$

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

$$GH = \sqrt{(-5 - 2)^2 + (4 - 6)^2}$$

$$\sqrt{(-7)^2 + (-2)^2}$$

$$\sqrt{49 + 4}$$

$$GH = \sqrt{53} \approx 7.3$$

$$GH \approx 7.2 = \sqrt{53}$$

$$7.28 \rightarrow 7.3$$

$$7.28 \rightarrow 7.2$$

Find the distance between the two points.

$$\begin{array}{cc} 2 & 1 \\ L(7, -1) & \text{and } M(-2, 4) \end{array}$$

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

$$LM = \sqrt{(7 - (-2))^2 + (-1 - 4)^2}$$

$$\sqrt{9^2 + (-5)^2}$$

$$\sqrt{81 + 125}$$

$$LM = \sqrt{106} \approx 10.3$$

---

15 total questions  
Good Luck!!

---