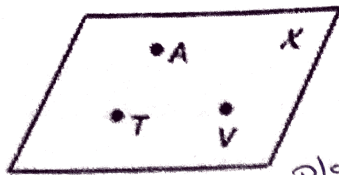


Name Key

Basics of Geometry Review Homework

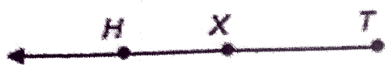
Study your foldable!!!

1. Name the plane in as many ways as possible.



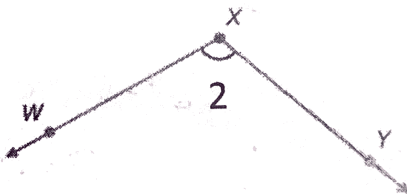
plane X
plane ATV
plane AVT
plane TAV
plane TVA

3. Name the whole ray in as many ways as possible.



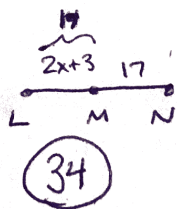
$\vec{TH} + \vec{TX}$

5. Name the angle in as many ways as possible.



$\angle 2$
 $\angle WXY$
 $\angle YXW$
 $\angle X$

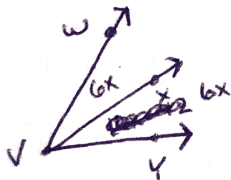
6. M is the midpoint of \overline{LN} . $LM = 2x+3$ and $MN = 17$. Find LN.



$$\begin{aligned} 2x+3 &= 17 \\ 2x &= 14 \\ x &= 7 \end{aligned}$$

34

7. \overline{VX} bisects $\angle WVY$, $m\angle WVX = (6x)^\circ$, and $m\angle WVY = (16x - 42)^\circ$. What is the value of x?

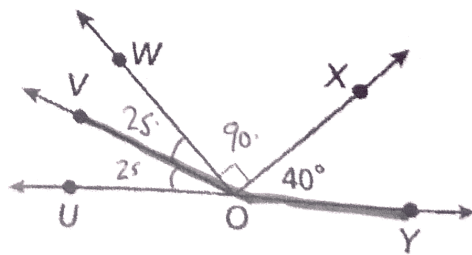


$$\begin{aligned} 6x + 6x &= 16x - 42 \\ 12x &= 16x - 42 \\ -4x &= -42 \\ x &= 10.5 \end{aligned}$$

8. If $m\angle UOW = 50^\circ$, and \overline{OV} bisects $\angle UOW$, what is the $m\angle VOY$?

$$\begin{array}{r} 25 \\ 90 \\ 40 \\ \hline 155 \end{array}$$

155°

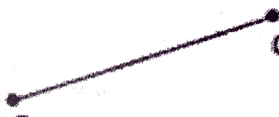


2. Name the line in as many ways as possible.



\overleftrightarrow{MO} , \overleftrightarrow{OM} , \overleftrightarrow{PO} , \overleftrightarrow{OP} , \overleftrightarrow{MP} , \overleftrightarrow{PM}

4. Name the segment in as many ways as possible.

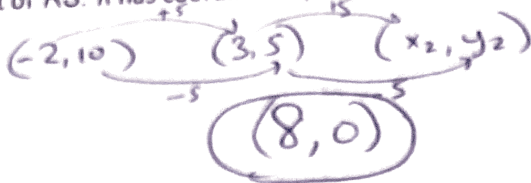


$\overline{BC} + \overline{CB}$

9. Find the midpoint of $(-6, 7)$ and $(8, -10)$.

$$\left(\frac{-6+8}{2}, \frac{7-10}{2} \right) \rightarrow (1, -1.5)$$

10. M is the midpoint of \overline{RS} . R has coordinates $(-2, 10)$, and M has coordinates $(3, 5)$. What are the coordinates of S ?



11. Snooker is a kind of pool or billiards played on a 6-foot-by-12-foot table. The side pockets are halfway down the rails (long sides).

a. Find the distance, to the nearest tenth of a foot (use a calculator), diagonally across the table from corner pocket to corner pocket.

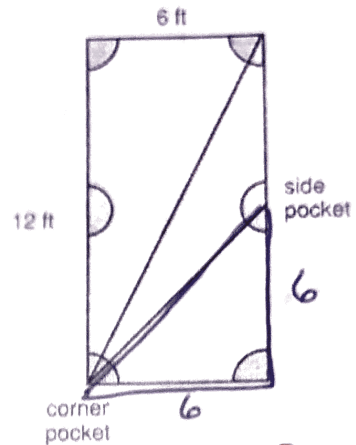
13.4 ft

b. Find the distance, to the nearest tenth of an inch (use a calculator), diagonally across the table from corner pocket to side pocket.

8.5 ft

$$\begin{aligned} 12^2 + 6^2 &= c^2 \\ 144 + 36 &= c^2 \\ 180 &= c^2 \\ \sqrt{180} &= c \end{aligned}$$

$$\begin{aligned} &\times 12 \\ &\approx 102 \text{ inches} \\ 6^2 + 6^2 &= c^2 \\ 72 &= c^2 \\ \sqrt{72} &= c \end{aligned}$$



convert to inches first

$$\begin{aligned} 72^2 + 72^2 &= c^2 \\ \sqrt{10368} &= c \end{aligned}$$