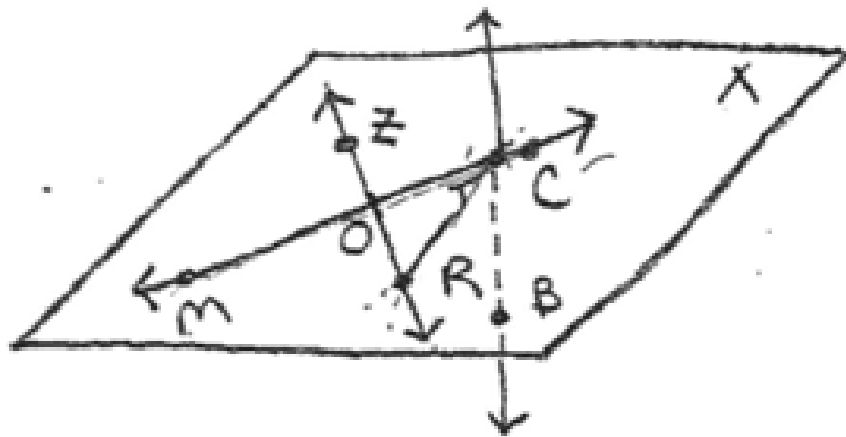


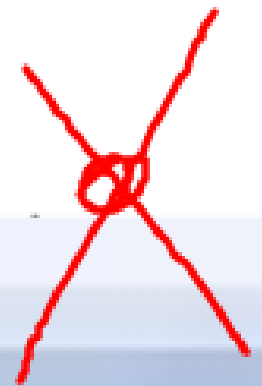
A blue folder is shown with a white sheet of paper partially pulled out. The text "Take out your Review Sheets" is printed in blue on the white paper. The folder's interior is a light blue color, and the paper has a subtle grid pattern.

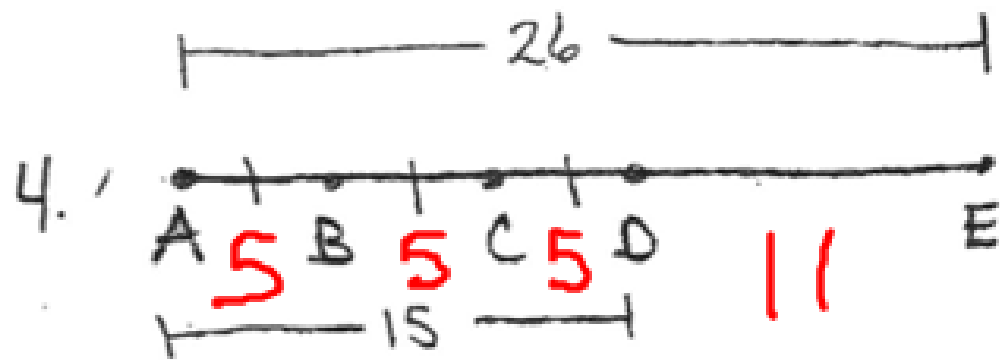
**Take out your
Review Sheets**



1. Name the plane 2 different ways
Plane X, Plane MOR
2. Are M, Z, and B collinear? coplanar?
NO NO
3. Name the intersection of \overleftrightarrow{MC} and \overleftrightarrow{TR}

Pt. T





Find each indicated length.

$$DE = 11$$

$$AB = 5$$

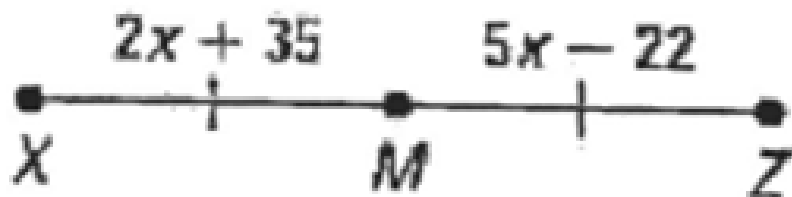
$$AC = 10$$

$$BD = 10$$

$$CE = 16$$

$$BE = 21$$

5. Find XZ.



$$\begin{array}{r} 2x + 35 = 5x - 22 \\ -2x \quad -2x \\ \hline \end{array}$$

$$\begin{array}{r} 35 = 3x - 22 \\ +22 \quad +22 \\ \hline \end{array}$$

$$\begin{array}{r} 57 = 3x \\ x = 19 \end{array}$$

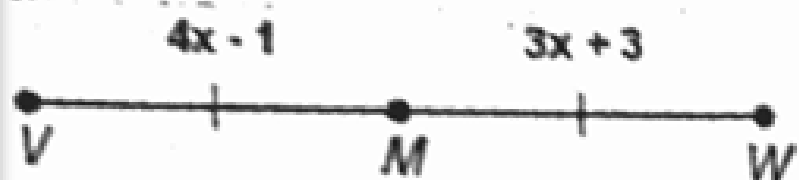
$$2x + 35 + 5x - 22$$

$$7x + 13$$

$$7(19) + 13$$

$$xz = 146$$

6. Find MW. Show your work.



7. Find the distance between the points $(-7, 3)$ and $(-15, -3)$. 10

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

$$\sqrt{(-7 - (-15))^2 + (3 - (-3))^2}$$

$$\sqrt{(8)^2 + (6)^2}$$

$$\sqrt{64 + 36}$$

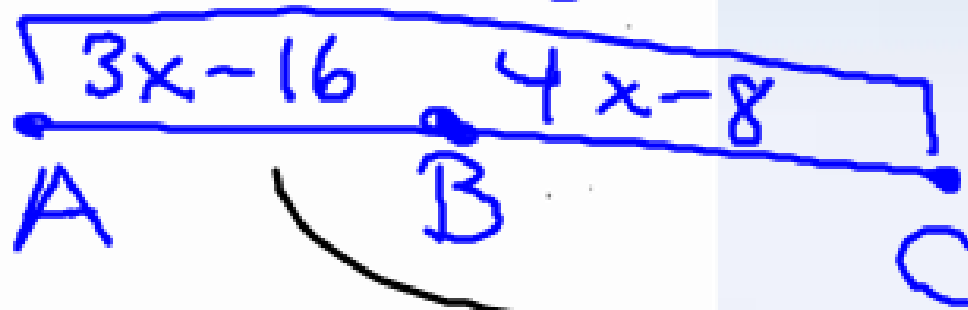
$$\sqrt{100} = 10$$

8. Point B is between A + C on \overline{AC} .
Find AB using the given info. 60

$$AC = 60$$

$$AB = 3x - 16$$

$$BC = 4x - 8$$



$$3x - 16 + 4x - 8 = 60 \rightarrow 3x - 16$$

$$7x - 24 = 60$$

$$3(12) - 16$$

$$7x = 84$$

$$36 - 16$$

$$x = 12$$

$$AB = 20$$

9. The endpoints of \overline{XY} are $X(1, -3)$ and $Y(4, 9)$. Find the coordinates of the midpoint M . Then find XY .

$$\left(\frac{x+x}{2}, \frac{y+y}{2} \right)$$

$$\left(\frac{1+4}{2}, \frac{-3+9}{2} \right)$$

$$\left(\frac{5}{2}, \frac{6}{2} \right)$$

$$M \left(2.5, 3 \right) \text{ or } \left(\frac{5}{2}, 3 \right)$$

$$\sqrt{(1-4)^2 + (-3-9)^2}$$

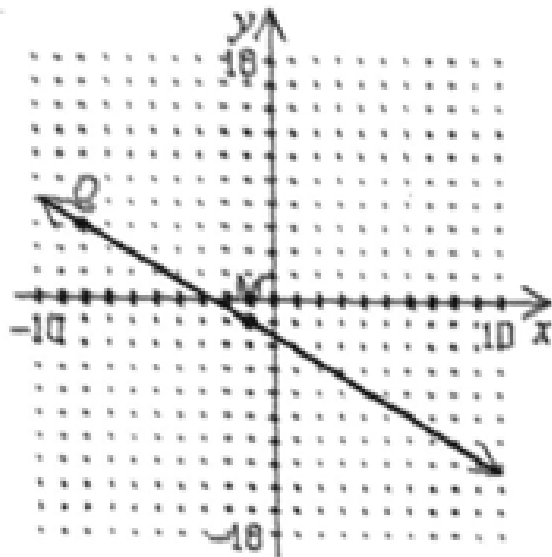
$$\sqrt{(-3)^2 + (-12)^2}$$

$$\sqrt{9 + 144}$$

$$\sqrt{153} \quad XY =$$

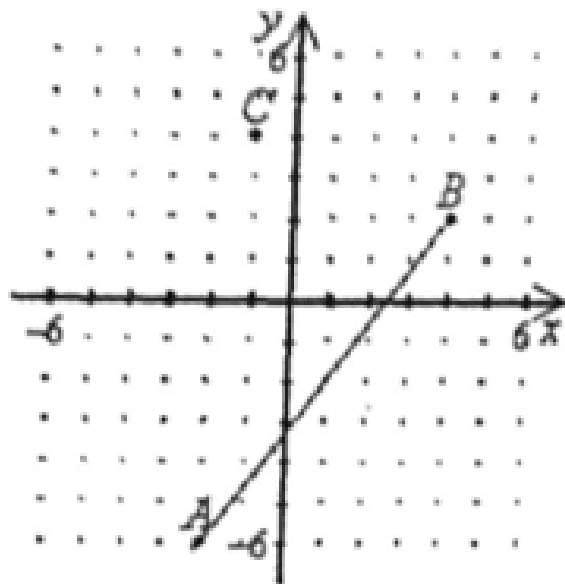
$$\sqrt{9} \cdot \sqrt{17} = 3\sqrt{17}$$

10. The midpoint of \overline{QR} is $M(-1, -1)$. One endpoint is $Q(-8, 3)$. Find the coordinates of the other endpoint.

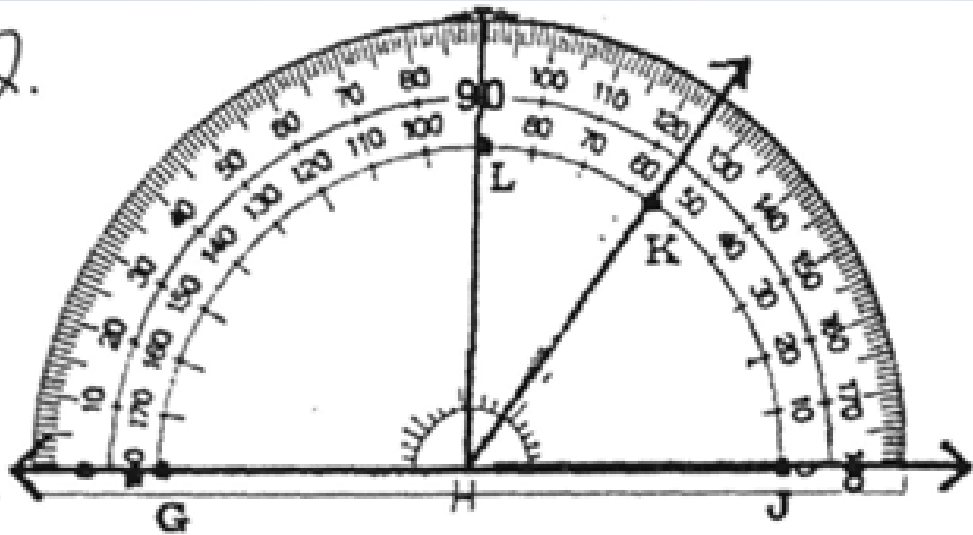


$$\frac{x_1 + x_2}{2} = M_x$$

11. Find the approximate length of the segment \overline{AB}



2.



Use the diagram to find the measure of the indicated angles. Then classify the angles.

a. $\angle KHJ$

b. $\angle GHK$

c. $\angle GHJ$

d. $\angle GHL$

13. $\angle 1$ and $\angle 2$ are complementary angles. Given $m\angle 1 = 89^\circ$ find $m\angle 2$.

$$\angle 1 + \angle 2 = 90$$

$$89^\circ + \angle 2 = 90$$

$$\angle 2 = 1^\circ$$

14. $\angle 1$ and $\angle 2$ are supplementary angles. Given $m\angle 1 = 27^\circ$ find $m\angle 2$.

$$\angle 1 + \angle 2 = 180$$

$$27 + \angle 2 = 180$$

$$\angle 2 = 153^\circ$$

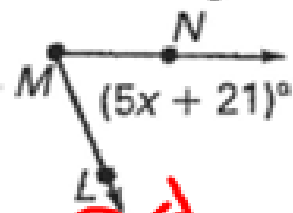
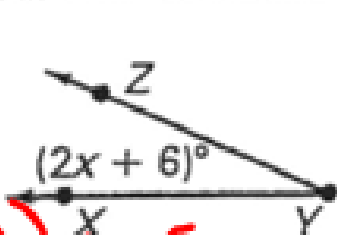
15. $\angle 1$ and $\angle 2$ are supplementary angles. Given $m\angle 1 = 130^\circ$ find $m\angle 2$.

$$\angle 1 + \angle 2 = 180$$

$$130 + \angle 2 = 180$$

$$\angle 2 = 50$$

16. Given that $\angle XYZ$ and $\angle LMN$ are complementary angles, find $m\angle XYZ$ and $m\angle LMN$.



$$2x + 6 + 5x + 21 = 90$$

$$7x + 27 = 90$$

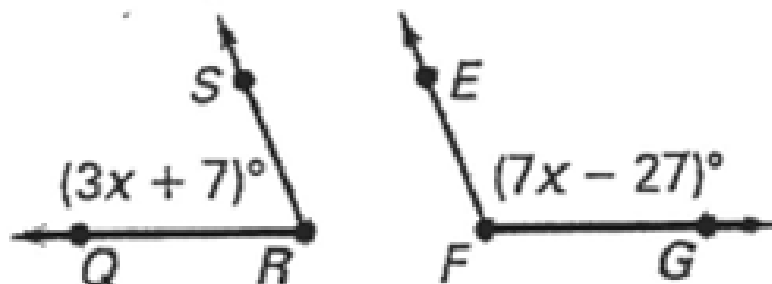
$$7x = 63$$

$$x = 9$$

$$2(9) + 6$$
$$24$$

$$5(9) + 21$$
$$66$$

17. Given that $\angle QRS$ and $\angle EFG$ are supplementary angles, find $m\angle QRS$ and $m\angle EFG$.



$$3x + 7 + 7x - 27 = 180$$

$$10x - 20 = 180$$

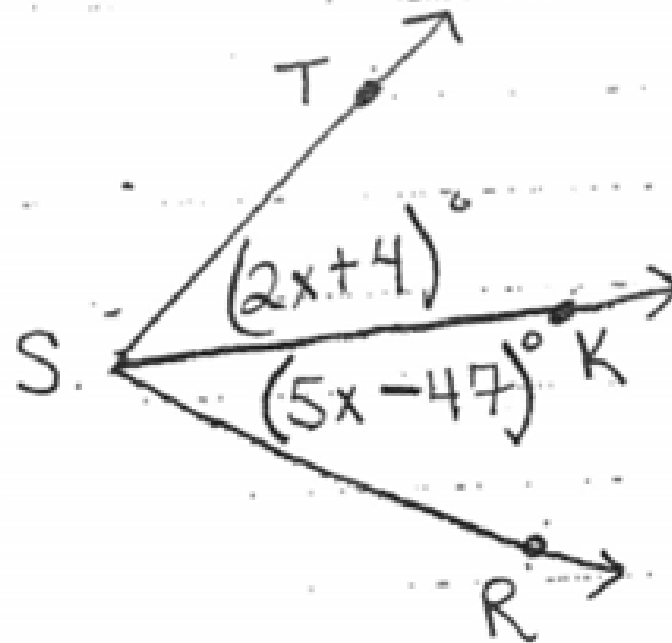
$$10x = 200$$

$$x = 20$$

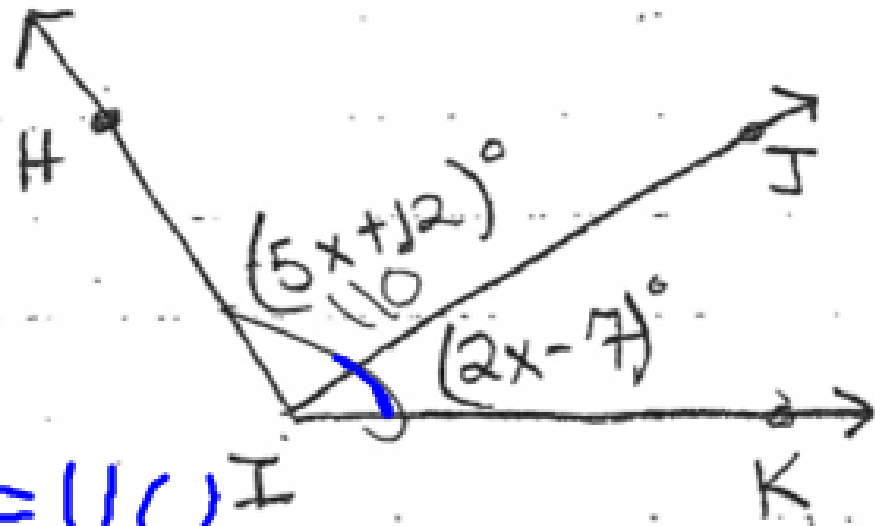
$$3x + 7$$
$$3(20) + 7$$
$$67$$

$$7x - 27$$
$$7(20) - 27$$
$$= 113$$

18. Find m \angle TSR.
Given SK is an
angle bisector
of \angle TSR.



19. Given $m\angle HIK = 110^\circ$
Solve for x .
Find $m\angle JIK$.



$$5x + 12 + 2x - 7 = 110$$

$$7x + 5 = 110$$

$$7x = 105$$

$$x = 15$$

$$2(15) - 7$$

$$23^\circ$$

~~In Exercise 19~~, use the diagram. Tell whether the angles are vertical angles, a linear pair, or neither.

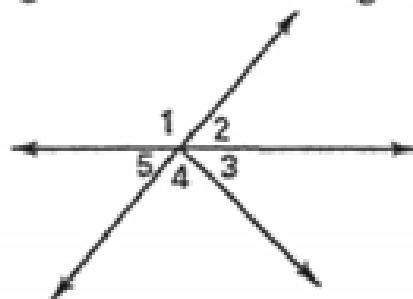
20. $\angle 1$ and $\angle 2$

linear
vertical

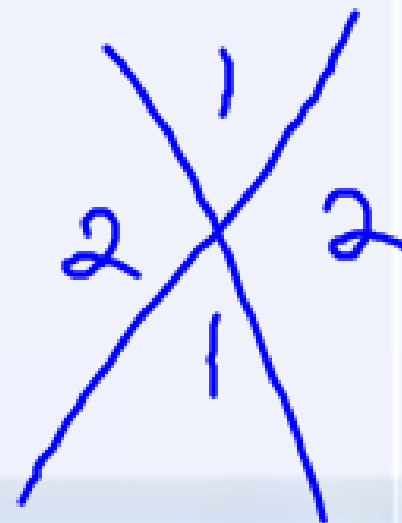
21. $\angle 2$ and $\angle 5$

22. $\angle 1$ and $\angle 4$

neither.



180°



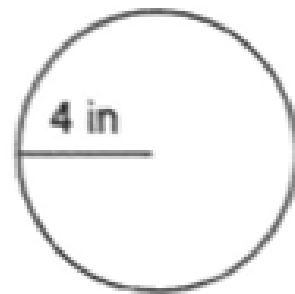
HOMework

Area, Perimeter and Circumference WS

Fill in each blank with the correct formula.

1. the area of a circle: $A = \pi r^2$
2. the area of a triangle: $A = \frac{1}{2}bh.$
4. the circumference of a circle: $C = 2\pi r$

5.



$$C = 2\pi r$$

$$= 2(3.14)(4 \text{ in})$$

$$= 25.12 \text{ in}$$

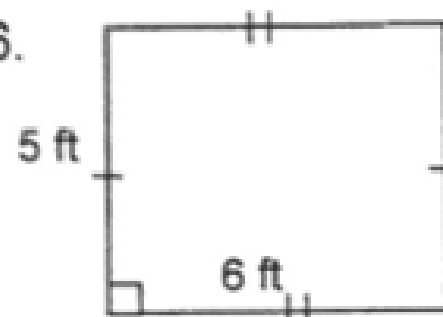
$$A = \pi r^2$$

$$= (3.14)(4 \text{ in})^2$$

$$= 3.14(16)$$

$$= 50.24 \text{ in}^2$$

6.



$$P = 22 \text{ ft}$$

$$A =$$

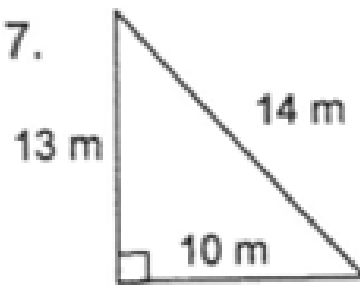
$$A = L \cdot W$$

$$= 6 \cdot 5$$

$$= 30 \text{ ft}^2$$

ice) of each figure.

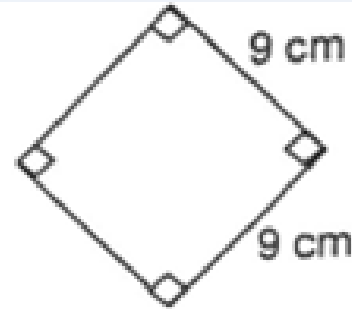
7.



$$P = \underline{37\text{ m}}$$

$$A = \underline{\hspace{2cm}}$$

8.



$$P = \underline{36\text{ cm}}$$

$$A = \underline{81\text{ cm}^2}$$

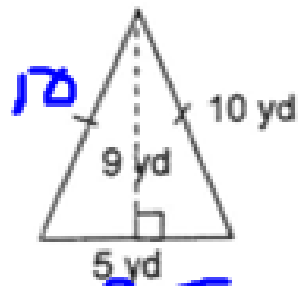
$$A = \frac{1}{2}bh.$$

$$= \frac{1}{2}(10)(13)$$

$$= 5(13)$$

$$= 65\text{ m}^2$$

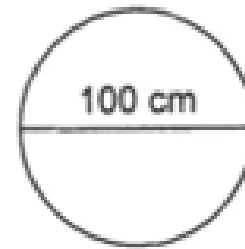
9.



$$P = \underline{25}$$

$$A = \underline{\hspace{2cm}}$$

10.



$$C = \underline{\hspace{2cm}}$$

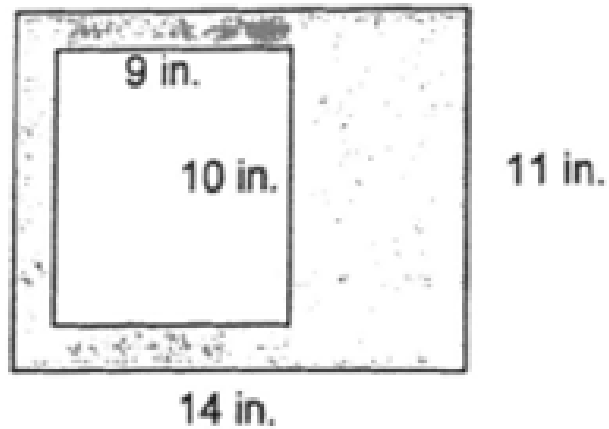
$$A = \underline{\hspace{2cm}}$$

$$\begin{aligned}
 A &= \frac{1}{2}bh \\
 &= \frac{1}{2}(5)(9) \\
 &= 2.5(9) \\
 &= \boxed{22.5} \text{ yd}^2
 \end{aligned}$$

$$\begin{aligned}
 A &= \pi r^2 \\
 &= (3.14)(50)^2 \\
 &= (3.14)(2500) \\
 &= \boxed{7850 \text{ cm}^2}
 \end{aligned}$$

11. Find the area of the shaded region.

Hint: area of shaded shape minus area of unshaded shape.



12. Find the area of the shaded region.
shaded shape.

