

12-11-13  
5<sup>th</sup> Geo

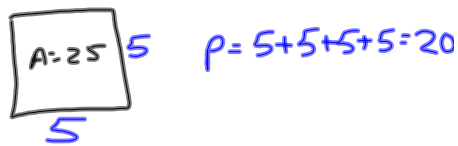
- 13) If the radius of a circle is 20 cm, what is the circumference?

$$C = \pi \cdot d \quad A = \pi r^2$$



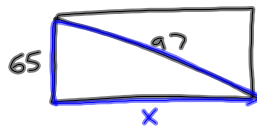
$$C = 40\pi$$

- 14) What is the perimeter of a square with an area of 25 cm<sup>2</sup>?



1) (0, 3) (6, -1)  
midpoint =  $\left(\frac{0+6}{2}, \frac{3+(-1)}{2}\right)$   
(3, 1)

- 21) If the diagonal distance of a rectangle is 97 cm and one of the sides is 65 cm, what is the other side length?



$$65^2 + x^2 = 97^2$$
$$4225 + x^2 = 9409$$
$$\sqrt{x^2} = \sqrt{5184}$$
$$x = 72$$

- 26) If  $\angle A$  and  $\angle B$  are vertical angles with  $\angle A = n + 60$  and  $\angle B = 2n + 10$ , what is the measurement of  $\angle A$ ?

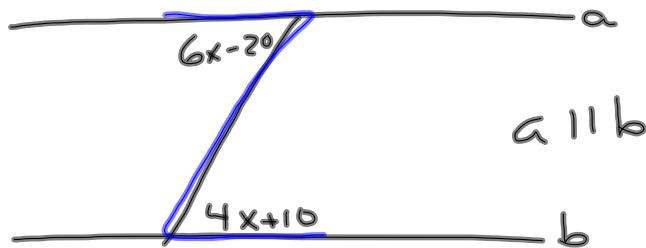
$$\angle A = \angle B$$
$$n + 60 = 2n + 10$$
$$\begin{array}{r} -n \\ \hline 60 = n + 10 \\ -10 \quad -10 \\ \hline 50 = n \end{array}$$
$$\angle A = 50 + 60$$
$$\angle A = 110^\circ$$

$$\begin{array}{r} \textcircled{45} \quad AB + BC = XY + BC \\ \quad \quad \quad - BC \quad \quad \quad - BC \\ \hline \end{array}$$

$$AB = XY$$

Subtraction

$\textcircled{60}$



$$\begin{array}{r} 6x - 20 = 4x + 10 \\ -4x \quad \quad -4x \\ \hline 2x - 20 = 10 \\ x = 15 \end{array}$$

$\textcircled{69}$  (2, 4)

parallel to  $y = 5x - 3$   
 $m = 5$

$$\begin{array}{l} y - y_1 = m(x - x_1) \\ y - 4 = 5(x - 2) \\ y - 4 = 5x - 10 \\ \quad +4 \quad \quad +4 \\ \hline y = 5x - 6 \end{array}$$

12-11-13  
6<sup>th</sup> Geo

$$A = \pi r^2 \quad C = \pi \cdot d$$

⑩  $\overleftrightarrow{AB} = \overleftrightarrow{BA}$

$$\overline{AB} = \overline{BA} \quad \overline{A} \quad \overline{B}$$

$$\overrightarrow{AB} = \overrightarrow{BA}$$

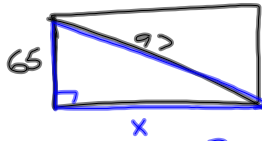


⑪  $\perp$  to  $y = -\frac{1}{7}x + 3$

$$m = -\frac{1}{7}$$

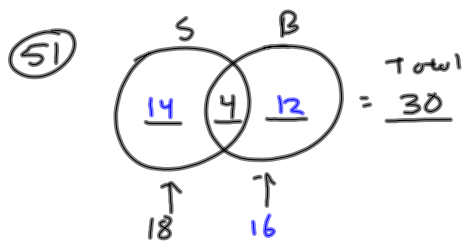
$$\perp m = 7$$

- ⑫ If the diagonal distance of a rectangle is 97 cm and one of the sides is 65 cm, what is the other side length?

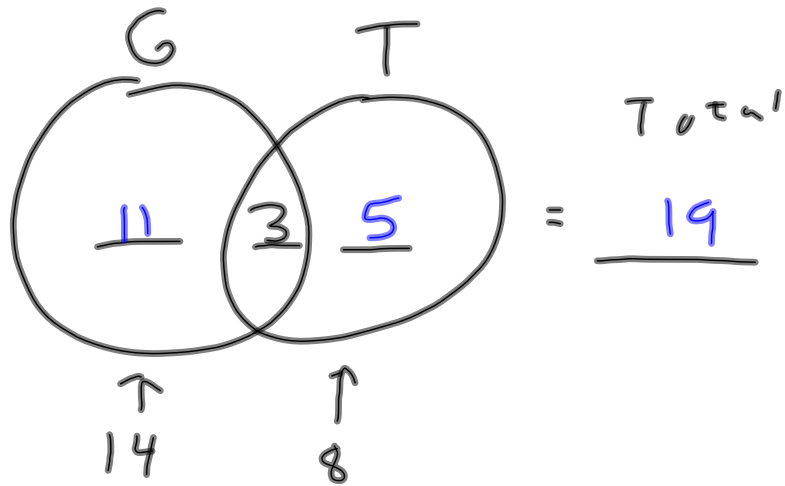


$$\begin{aligned} 65^2 + x^2 &= 97^2 \\ 4225 + x^2 &= 9409 \\ -4225 &\quad -4225 \\ \hline \sqrt{x^2} &= \sqrt{5184} \\ x &= 72 \end{aligned}$$

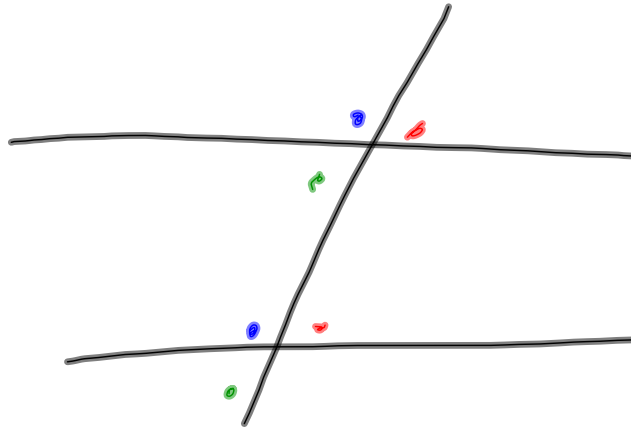
$$\begin{aligned} (2, 6) \quad (4, 100) \\ \left( \frac{2+4}{2}, \frac{6+100}{2} \right) \\ (3, 53) \end{aligned}$$



(49)



(56)



(67)

(2.7) slope = 4

$$y - y_1 = m(x - x_1)$$

$$y - 7 = 4(x - 2)$$

$$\begin{array}{r} y - 7 = 4x - 8 \\ +7 \qquad \qquad +7 \\ \hline y = 4x - 1 \end{array}$$