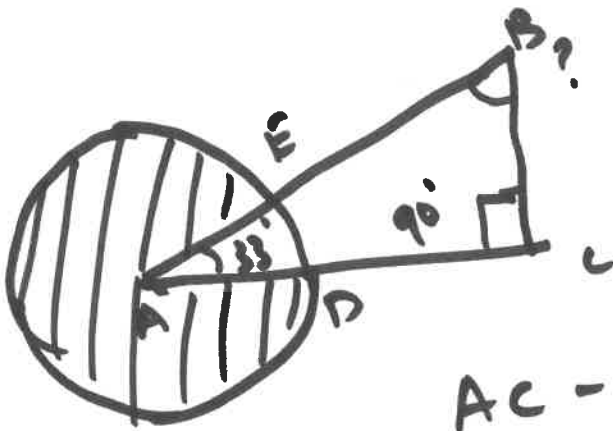


UBMS



$$AC = 22 \text{ cm.}$$

$$AD = 11 \text{ cm.} \rightarrow \text{radius.}$$

$$\frac{110\pi}{\pi r^2} - \text{except } \Delta.$$

$$\pi r^2 \rightarrow \pi (11)^2 \rightarrow \underline{121\pi}.$$

$$121\pi - 110\pi \rightarrow AED \rightarrow 11\pi.$$

$$\frac{11\pi}{121\pi} = \frac{x^\circ}{360}.$$

$$x = \frac{11(360)}{121}$$

$$x = 32.7 \\ \approx 33$$

$$180 - 90 - 33 \rightarrow 57^\circ \parallel (E).$$

$$2) \sqrt{1} \rightarrow \frac{1}{1} \quad \sqrt{2} = 1.414.$$

$$\sqrt{4} = 2$$

$$\sqrt{9} = 3$$

$$\sqrt{1}, \sqrt{4}, \sqrt{9}, \sqrt{16}, \sqrt{25}, \sqrt{36}, \sqrt{49}.$$

$$43/50 \cdot (E)$$

$$3) x^2 + 5x + 6 = 0.$$

$$x^2 + 4x + 6 = 0.$$

$$2 \times 3$$

$$3 \times 2$$

$$(x+2)(x+3).$$

$$x = -2 \quad x = -3$$

$$x^3 + 5x^2 + 5x + 6 = 0 \quad (x+2).$$

$$\leftarrow x = -2$$

$$(-2)^3 + 5(-2)^2 + 5(-2) + 6 = 0.$$

$$-8 + 5(4) + (-25) + 6 = 0.$$

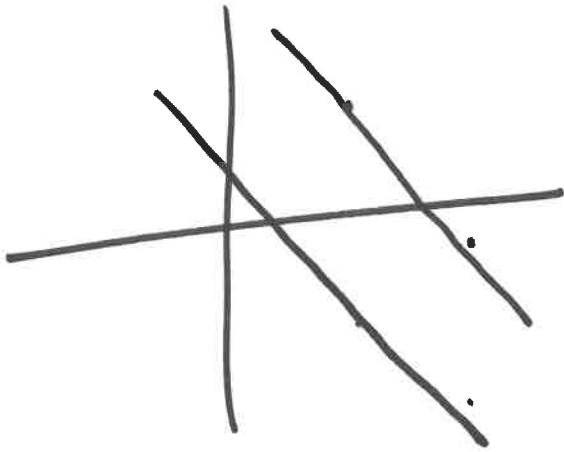
$$-8 + 20 - 25 + 6 = 0 \Rightarrow 26 - 28 - 25 = 0.$$

$$-2s = -26 + 8$$

$$-2s = -18$$

$$\boxed{s = 9}$$

$$4) y = mx + c.$$



$$m = \frac{y_1 - y_2}{x_1 - x_2}$$

$$\begin{matrix} (6, 3) & (4, -1) \\ x_1 & x_2 \\ y_1 & y_2 \end{matrix}$$

$$m = \frac{3 - (-1)}{6 - 4} = \frac{4}{2}$$

$$\boxed{m = 2}$$

$$y - y_1 = m(x - x_1) \quad \begin{matrix} (7, -4) \\ x_1, y_1 \end{matrix}$$

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

$$y + 4 = 2x - 14 \Rightarrow \underline{y = 2x - 18} //$$

$$5) \quad 213a'b'$$

$$21345$$

$$2130'b'$$

$$2+1+3+0+b=13$$

$$6+b=13$$

$$b=7.$$

$$6) \quad \frac{3^{102}}{3} + 9 \times 3^{100} + \frac{3^{103}}{3} = ?$$

$$3^{102} + 3^2 \times 3^{100} + \frac{3 \times 3 \times \dots \times 3}{3}$$

$$3^{-1} \times 3^{103}$$

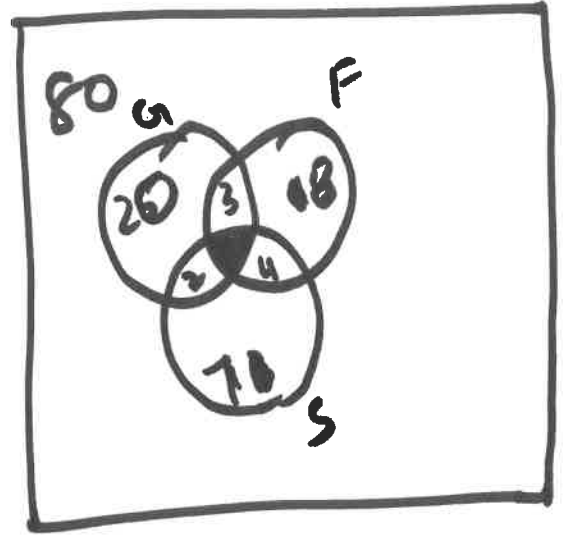
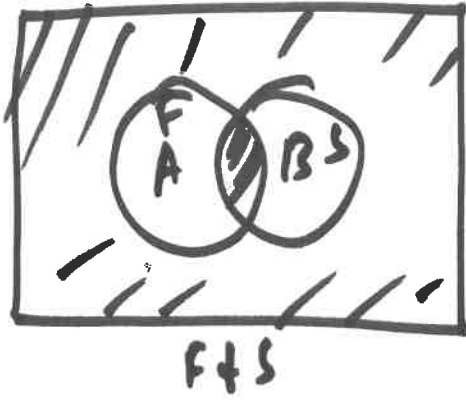
$$3^{102} + 3^{102} + 3^{102} = ?$$

$$5+5+5 \quad 5+5+5.$$

$$3^1 \times 3^{102} = 3^{103} //$$

$$3 \times 5^2 \quad 3 \times 5.$$

7)



$$80 - [20 + 8 + 7 + 9]$$

$$80 - 44$$

$$36$$

$$8) \quad 2x - 3y = -14$$

$$3x - 2y = -6.$$

$$4x - 6y = -28$$

$$\begin{array}{r} (-) \quad 9x - 6y = -18. \\ (+) \quad \quad \quad (+) \end{array}$$

$$-5x = -10$$

$$x = \frac{-10}{-5} \quad \boxed{x=2}$$

$$2(2) - 3y = -14.$$

$$-3y = -14 - 4 \quad -3y = -18.$$

$$y = \frac{-18}{-3} \quad \boxed{y=6}$$

$$x - y \Rightarrow$$

$$\Rightarrow 2 - 6$$

$$x - y \Rightarrow -4.$$