

Ejercitacion y Entrega

$$1) A) (2x - 4) \cdot (3x - 2) = \underline{6x^2 - 16x + 8}$$
$$6x^2 - 4x - 12x + 8$$

$$B) (2x - 4)^3 = \underline{8x^3 - 48x^2 + 96x - 64}$$

$$(2x)^3 - 3 \cdot (2x)^2 \cdot 4 + 3 \cdot 2x \cdot 4^2 - 4^3$$

$$8x^3 - 48x^2 + 96x - 64$$

$$C) (x - 4)^2 = \underline{x^2 - 8x + 16}$$

$$(x - 4)(x - 4)$$

$$x^2 - 4x - 4x + 16$$

$$D) (3x - 2)(3x + 2) = \underline{9x^2 - 4}$$

$$(3x)^2 - (2)^2$$

$$2) A) 2 \cdot (x-4) + 4 = \sqrt[3]{-8}$$

$$2x - 4 = -2$$

$$\underline{x} = \frac{2}{2} = \underline{1}$$

$$B) \begin{cases} \textcircled{1} \frac{x}{3} + \frac{2y}{5} = 23 \rightarrow 15 \cdot \frac{x}{3} + 15 \cdot \frac{2y}{5} = 23 \cdot 15 \\ \textcircled{2} x + y = 53 \end{cases} \quad \textcircled{1} 5x + 6y = 345$$

$$x = 53 - y$$

$$5(53 - y) + 6y = 345$$

No Har Solution

$$265 - 5y + 6y = 345$$

$$\underline{y = 80}$$

$$3) A) \quad 9x + 2 = 2 \cdot (x + 2)$$

$$9x + 2 = 2x + 4$$

$$7x = 2$$

$$\underline{x = \frac{2}{7}}$$

$$B) 2x(x-1) - \frac{9}{3} = \sqrt{3} \cdot \sqrt{3} \quad (\sqrt{3})^2$$

$$2x^2 - 2x - 3 = 3$$

$$2x^2 - 2x - 6 = 0$$

$$\underline{x^2 - x - 3}$$

$$(x-3)(x+1)$$

$$\underline{x = 3}$$

$$\underline{x = -1}$$

$$4) A) 7 - 5x > -2x + 9$$

$$-5x + 2x < 9 - 7$$

$$-3x < 2$$

$$x < -\frac{2}{3}$$

$$\underline{S: (-\infty; -\frac{2}{3})}$$

$$B) 2 \cdot (x-1) \leq \frac{\sqrt{9}}{-3} - 2^2$$

$$2x - 2 \leq -1 - 4$$

$$2x \leq -5 + 2$$

$$x \leq -\frac{3}{2}$$

$$\underline{S: (-\infty; -\frac{3}{2}]}$$