

Propiedad a utilizar:

$$\log_b MN = \log_b M + \log_b N$$

Ejercicio:

$$\log_2 3 + \log_2 x = \log_2 5 + \log_2(x - 2)$$

$$\log_2(3 \cdot x) = \log_2(5(x - 2))$$

$$3x = 5x - 10$$

$$3x - 5x = -10$$

$$x = \frac{-10}{-2}$$

$$x = 5$$

UTILIZAMOS :

$$\log_b N = X \implies b^X = N$$

$$\log_3(x - 6) - \log_3(2x - 1) = 0$$

$$\log_3 \frac{x - 6}{2x - 1} = 0$$

$$3^0 = \frac{x - 6}{2x - 1}$$

$$(2x - 1)1 = x + 6$$

$$2x - 1 = x + 6$$

$$2x - x = 6 + 1$$

$$x = 7$$