

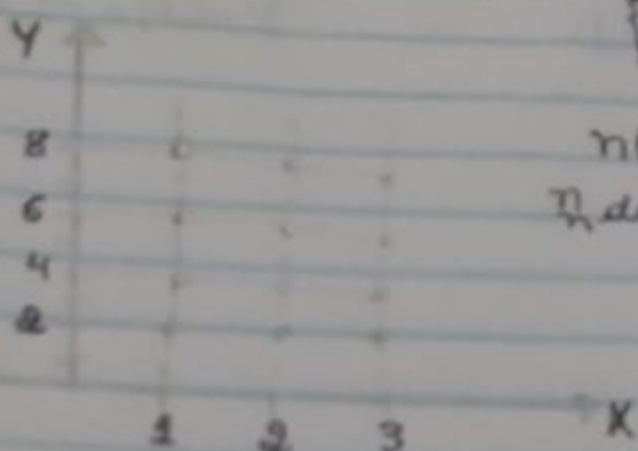
# Exercício produto cartesiano e relação binária?

## Exercício de Aula

$$① A = \{1, 2, 3\}$$

$$B = \{2, 4, 6, 8\}$$

$$A \times B = \{(1, 2); (1, 4); (1, 6); (1, 8); (2, 2); (2, 4); (2, 6); (2, 8); (3, 2); (3, 4); (3, 6); (3, 8)\}$$

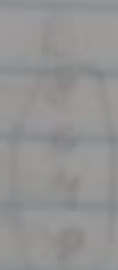
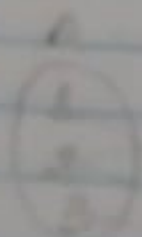


$$n(A) = 3$$

$$n(B) = 4$$

$$n \text{ de elementos } n(A \times B) = 12$$

$$n(A \times B) = n(A) \cdot n(B) = 3 \cdot 4 = 12$$



$$02. (x+3y); -x-y = (4+y, 2x+y)$$

$$\begin{cases} x+3y = 4+y \\ -x-y = 2x+y \end{cases} \Rightarrow \begin{cases} x+2y = 4 \\ -3x-2y = 0 \end{cases}$$

$$x^y = (-2)^3 = -8$$

$$-2x = 4$$

$$x = \frac{4}{-2} = -2$$

$$-2 + 2y = 4$$

$$2y = 6 \quad y = 3$$