

## COMBINATORIA

Problema 11:

Resolver la ecuación:

$$\frac{V_{x,2} + C_{x,1}}{C_{x+1,2}} = 2$$

Solución Problema 11:

$$\frac{V_{x,2} + C_{x,1}}{C_{x+1,2}} = 2$$

$$\frac{V_{x,2} + \frac{V_{x,2}}{P_2}}{\frac{V_{x+1,2}}{P_2}} = 2$$

$$\frac{x(x-1) + \frac{x(x-1)}{2}}{\frac{(x+1)x}{2}} = 2$$

$$\frac{\frac{2x(x-1) + x(x-1)}{2}}{\frac{(x+1)x}{2}} = 2$$

$$\frac{2x(x-1) + x(x-1)}{(x+1)x} = 2$$

$$\frac{3x(x-1)}{(x+1)x} = 2$$

$$3(x-1) = 2(x+1)$$

$$3x - 3 = 2x + 2$$

$$x = 5$$