

Linear Equations in Disguise Worksheets

Solve the following equations.

$$1. \frac{-x - 2}{-4} = \frac{3x + 6}{2}$$

$$2. \frac{4 - x}{8} = \frac{7x - 1}{3}$$

Linear Equations in Disguise Worksheets

Solve the following equations.

$$1. \frac{-x - 2}{-4} = \frac{3x + 6}{2}$$

$$\begin{aligned}\frac{-x - 2}{-4} &= \frac{3x + 6}{2} \\ -4(3x + 6) &= 2(-x - 2) \\ -12x - 24 &= -2x - 4 \\ -12x - 24 + 24 &= -2x - 4 + 24 \\ -12x &= -2x + 20 \\ -12x + 2x &= -2x + 2x + 20 \\ -10x &= 20 \\ x &= -2\end{aligned}$$

$$2. \frac{4 - x}{8} = \frac{7x - 1}{3}$$

$$\begin{aligned}\frac{4 - x}{8} &= \frac{7x - 1}{3} \\ 8(7x - 1) &= (4 - x)3 \\ 56x - 8 &= 12 - 3x \\ 56x - 8 + 8 &= 12 + 8 - 3x \\ 56x &= 20 - 3x \\ 56x + 3x &= 20 - 3x + 3x \\ 59x &= 20 \\ \frac{59}{59}x &= \frac{20}{59} \\ x &= \frac{20}{59}\end{aligned}$$