

Equation Quiz

Practice Problems

1. Solve for x .

$$3(x - 7) = 27$$

2. Solve for x .

$$-30 = 5(x + 1)$$

3. Solve for x .

$$3 = \frac{x}{-4} - 5$$

4. Solve for x .

$$41 = 12x - 7$$

5. Solve for t .

$$2(t + 1) = 10$$

Worked Solution

Solve $41 = 12x - 7$

1. Add 7 to both sides.

$$41 + 7 = 12x - 7 + 7$$

2. Simplify.

$$48 = 12x$$

3. Divide both sides by 12.

$$\frac{48}{12} = \frac{12x}{12}$$

4. Simplify again.

$$x = 4$$

Answer: $x = 4$

Check:

$$12(4) - 7 = 48 - 7 = 41$$