

Solve the equation.

$$x^2 - 32 = -4x$$

$$x^2 + 4x - 32 = 0$$

$$(x - 4)(x + 8) = 0$$

$$\begin{array}{r} 32 \\ 1, 32 \\ 2, 16 \\ \underline{4, 8} \end{array}$$

$$x - 4 = 0 \quad \text{or} \quad x + 8 = 0$$

$$+4 \quad +4$$

$$(x = 4)$$

$$-8 \quad -8$$

$$(x = -8)$$