

# Warm-Up

Name \_\_\_\_\_ Per \_\_\_\_

Solve by factoring

$$\begin{aligned}x^2 - 4x &= 12 \\ &\quad -12 \quad -12 \\ x^2 - 4x - 12 &= 0\end{aligned}$$

Factors:  $(x-6)(x+2)$

Solutions:  $x=6 \quad x=-2$

Solve by square roots

$$\begin{aligned}3x^2 + 14 &= 11 \\ &\quad -14 \quad -14 \\ 3x^2 &= -3 \\ \frac{3x^2}{3} &= \frac{-3}{3} \\ \sqrt{x^2} &= \sqrt{-1} \\ x &= \pm i\end{aligned}$$

Solutions:  $x=i \quad x=-i$