

# DAY 2

**Warm Up** Factor the trinomial.

1)  $x^2 + 7x - 18$

$ax^2 + bx + c$

~~$\begin{array}{ccc} & -18 & \\ -2 & \cdot & 9 \\ & + & \\ & 7 & \end{array}$~~

$(x-2)(x+9)$

2)  $x^2 - 4 + 3x$

$x^2 + 3x - 4$

$(x-1)(x+4)$

~~$\begin{array}{ccc} & -4 & \\ -1 & \cdot & 4 \\ & + & \\ & 3 & \end{array}$~~

3)  $x^2 + 3x - 6$

~~$\begin{array}{ccc} & -6 & \\ & \cdot & \\ & 3 & \end{array}$~~

$\begin{array}{ccc} 1, 6 & \\ 2, 3 & \end{array}$

prime

## Homework Questions?

**"9.8" wkst**

**Try It** Factor the trinomial.

1)  $x^2 + 11x + 18$

$$\begin{array}{ccc} & 18 & \\ 9 & \times & 2 \\ & 11 & \end{array}$$

$$(x+9)(x+2)$$

2)  $x^2 - 10x + 21$

$$\begin{array}{ccc} & 21 & 1, 21 \\ -3 & \times & -7 \\ & -10 & 3, 7 \end{array}$$

$$(x-3)(x-7)$$

3)  $x^2 - 6x - 7$

$$\begin{array}{ccc} & -7 & \\ 1 & \times & -7 \\ & -6 & \end{array}$$

$$(x-7)(x+1)$$

4)  $x^2 + 3x - 10$

$$\begin{array}{ccc} & -10 & \\ -2 & \times & 5 \\ & 3 & \end{array}$$

$$(x-2)(x+5)$$

## 10.5 Homework

p.599 #2-5, 12-23, 46