Warm-Up

Factor the following:

1)
$$2x^2 - 8x$$

2) $9a^3b^4 + 12ab^5$

3)
$$5(x+1) - x(x+1)$$

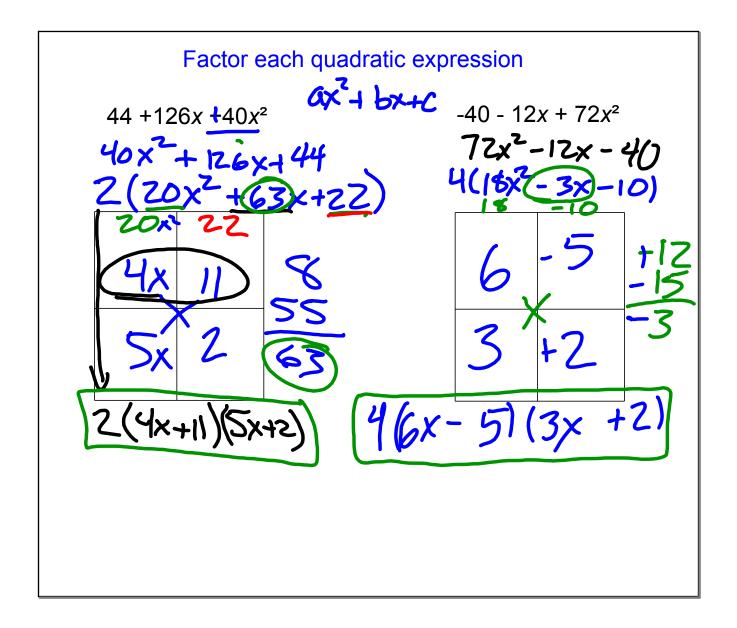
$$(X+1)(5-x)$$

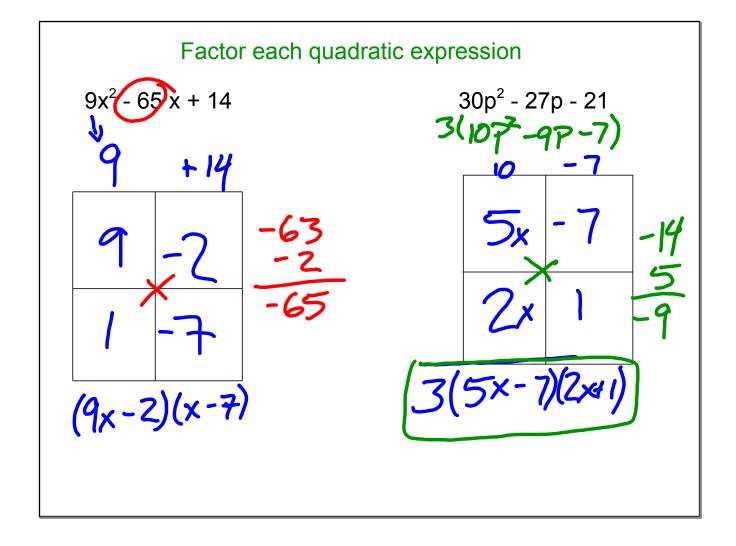
3-4

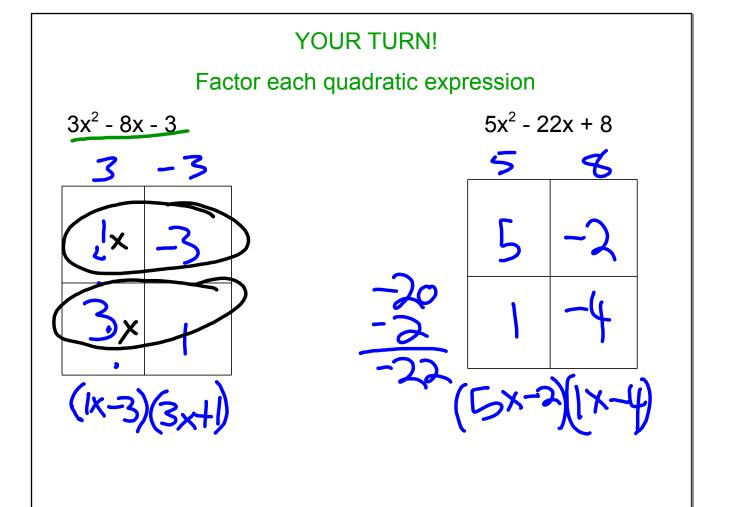
Factoring Quadratic Expressions

Objectives: I can factor quadratic expressions in standard form.

Vocabulary: Expression, Quadratic







Factor the quadratic expression

$$45x^{2} + 24x - 189$$

$$3(15x^{2} + 8x - 63)$$

$$15 - 63$$

$$5 - 9$$

$$-27$$

$$3 + 7$$

$$+ 8$$

$$3(5x - 9)(3x + 7)$$

$$5(6x + 1)(2x + 9)$$

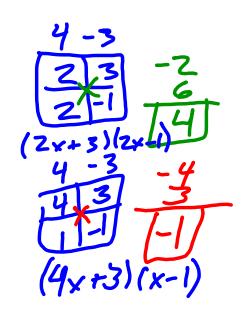
$$5(6x + 1)(2x + 9)$$

YOUR TURN!

Find 2 different values that complete each expression

$$4n^2 + \boxed{n - 3}$$

$$18x^2 + x + 8$$



YOUR TURN!

Factor each quadratic expression

$$96x^2 - 76x - 77$$

