Algebra 1 8.3

Multiply binomials using EWE

Multiply polynomials using EWE

distributive property

EWE

(FOIL = FAIL)

quadratic

standard form

X-factor

triangle puzzle (if time)

X-5

X-3

X-15

1B. (5y - 2)(y + 8)

Whiteboards

Example 2 FOIL Method

ewe

Find each product.

a.
$$(2y - 7)(3y + 5)$$

$$\frac{3y-5}{3y+5}$$
 $\frac{3y+5}{10y-35}$

- by -114-35

b. (4a-5)(2a-9)

GuidedPractice

2A.
$$(x+3)(x-4)$$

2B.
$$(4b-5)(3b+2)$$

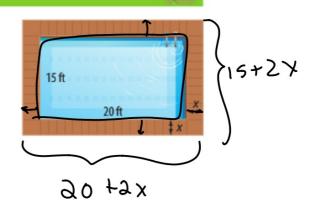
20.
$$(2y - 5)(y - 6)$$

2D.
$$(5a + 2)(3a - 4)$$

Real-World Example 3 FOIL Method

SWIMMING POOL A contractor is building a deck around a rectangular swimming pool. The deck is *x* feet from every side of the pool. Write an expression for the total area of the pool and deck.

Understand We need to find an expression for the total area of the pool and deck.



GuidedPractice 3. If the pool is 25 feet long and 20 feet wide, find the area of the pool and deck.

ewe

Example 4 The Distributive Property

Find each product.

a.
$$(6x+5)(2x^2-3x-5)$$

$$2x^{2}-3x-5$$

 $6x+5$

$$\frac{3 10 x^{2} - 15x - 25}{12 x^{3} - 18x^{2} - 30x}$$

$$\frac{12 x^{3} - 8x^{2} - 45x - 25}{12 x^{3} - 8x^{2} - 45x - 25}$$

Matching activity
Triangle puzzle

b.
$$(2y^2 + 3y - 1)(3y^2 - 5y + 2)$$

GuidedPractice

4A.
$$(3x-5)(2x^2+7x-8)$$

4B)
$$(m^2 + 2m - 3)(4m^2 - 7m + 5)$$