1.5 Multiply Polynomials

ALGEBRA

Write your questions here!

Monomial to Polynomial

$$2x^3(x^2 + 7x - 5)$$

Binomial to Polynomial

$$(3y - 1)(2y - 3)$$

Multiply using a Table

$$(2x^2 - 1)(3x^2 + 5x - 2)$$

Perfect Square
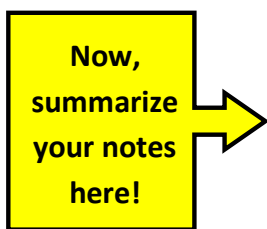
Difference of Squares

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

Try it!

$$3m^2(3m^2 - 4m + 2)$$

$$(2x - 3)^2$$

$$(3h + 5)(2h^2 + 4h - 5)$$

SUMMARY:

Now, summarize your notes here!

1.5 Multiply Polynomials

Find the product.

1. $2x(3x^2 - 4x + 5)$	2. $3a(5a^6 - 2a^3 + a)$	3. $(4g^2 - 2)(-4g)$
4. $(2x + 1)(4x + 3)$	5. $(2p + 1)(3p - 2)$	6. $(2a + b)(2a + 3b)$
7. $(5a - 3)^2$		8. $(3k - 1)(3k^2 - 11k - 8)$

9. $2(4m + 3)(2m - 1)$

10. $(3c + 4)^2$

11. $(n + 1)(2n^3 - n^2 + n + 12)$

12. $(3b^2 + 5)(b^2 - 5b + 4)$

1.5 Multiply Polynomials

Find each product.

1. $(3x + 2)^2$

2. $(d^2 + 1)(2d^2 - 5d + 7)$

3. The expression $3(2m + 5)(8 - 4m)$ is equivalent to which of the following expressions?

    A) $-24m^2 - 12m + 120$

    B) $-72m^2 - 36m + 360$

    C) $-24m^2 + 28m + 40$

    D) $-24m^2 + 42m + 120$

    E) $-72m^2 + 144m + 360$

EXIT TICKET

Tommy has a tomato garden that his 4 foot by 6 foot. He would like to put gravel path around his garden as shown below. He is not sure how wide he wants to make the path so let's just call it x. Write an expression to represent the perimeter and area of the entire garden including the path in terms of x, the width of the path.

Area: Perimeter:

6

4
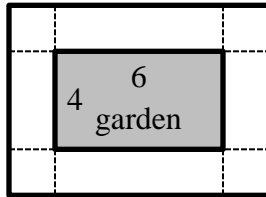
garden

Use your expressions to find both the area and perimeter of the entire garden including path if the path is 2 foot wide.

SMP #4