

10.2 Multiplying Polynomials

NOTES

Write your questions here!



Multiplying a Monomial times a Polynomial

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

Multiplying using a table

$$(2x - 1)(4x + 2)$$

Binomial times a Trinomial

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

Another Way: Multiplying Horizontally

$$(2x - 5)^2$$

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

Try these:

$$(2x - 4)(2x + 4)$$

$$(7g^2 + 4g + 1)(g - 8)$$

SUMMARY:

Now,
summarize
your notes
here!



10.2 Multiplying Polynomials

PRACTICE

DIRECTIONS: Find the product.

1) $x(2x^2 - 3x + 9)$

2) $z^2(4z^4 + z^3 - 11z^2 - 6)$

3) $-a^5(-9a^2 + 5a + 13)$

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

5) $(4b - 3)(b-7)$

6) $(3k - 1)((3k + 1)$

$$7) (y - 6)^2$$

$$8) (7w + 5)(11w - 3)$$

$$9) (s + 4)(s^2 + 6s - 5)$$

$$10) (5x + 2)(-3x^2 + 4x - 1)$$

$$11) (6z^2 + z - 1)(9z - 5)$$

$$12) p(2p-3) + (p-3)(p+3)$$

$$13) -3b^2(b + 11) - (4b - 5)(3b - 2)$$