

Starter

10 JAN 2017

Simplify the following.

1) $(2x^2y^5)(4xy^3)$
 $(2x^2y^5)(4xy^3) = 32x^4y^8$
 2) $(x-4)(3x+5)$ Distributive
 $x \cdot 3x = 3x^2$
 $3x^2 + 5x - 12x - 20$
 $3x^2 - 7x - 20$

Multiplying & Simplifying Polynomials

Example 1: $(x+5)(x-6)$

$x^2 - 6x + 5x - 30$
 $x^2 - x - 30$
 $x \cdot -6 = -6x$

Example 2: $(3n-2)(5+6n)$

$15n + 18n^2 - 10 - 12n$
 $18n^2 + 3n - 10$
 $3n \cdot 6n$

Example 3: $(4y+z)(y-2z)$ z

$4y^2 - 8yz + yz - 2z^2$
 $4y^2 - 7yz - 2z^2$
 $4y^2 - 2z^2 - 7yz$

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

$x^3 + 3x^2 - 5x^1 + 2x^2 + 6x^1 - 10$

$x^3 + 5x^2 + x - 10$

$x^1 \cdot x^2$

Example 5: $(-2y + y^2 - 4y^3)(6y - 3)$

$(6y^1 - 3)(-2y^1 + y^2 - 4y^3)$

$-12y^2 + 6y^3 - 24y^4 + 6y - 3y^2 + 12y^3$

$-24y^4 + 18y^3 - 15y^2 + 6y$

Homework

Homework: Multiplying Polynomials

1) $(5x - 8)(2x - 3)$ 2) $(n + 1)(n - 7)$

3) $(3x - 7)(x - 2)$ 4) $(3d - 2)(-d^2 - 3d + 2)$

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