Name NOTES

Algebra II: Subtracting Polynomials

Essential Question:

How do I subtract polynomials?

Sub Questions:

What do I do differently when I subtract a polynomial? (power point)

Re-write subtraction as adding the opposite!

EX $(3x^2 + 2b - 4) - (2x^2 - 3b + 6)$

$= (3x^2 + bb - 4) + (-2x^2 + 3b - 6)$

1) $(9y - 7x + 15a) + (+3y + 8x + 8a)$

$+3y + 8x + 8a$

$12y + (-15x) + 23a$

or $12y - 15x + 23a$

2) $(7a - 10b) - (3a + 4b)$

$= (7a - 10b) + (-3a - 4b)$

$-3a - 4b$

$4a - 14b$

3) $(4x^2 - 2xy + 3y^2) - (-3x^2 - xy + 6)$

$= (4x^2 - 2xy + 3y^2) + (3x^2 + xy - 6)$

$+ 3x^2 + xy + 6$

$7x^2 - xy + 3y^2 + 6$

5)

Name_____

Subtract the Polynomials.

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

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

3) $(2b - 2) - (b - 4)$

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

5) $(5m - 16) - (m + 2)$

6) $(3n - 2) - (m + 2)$

7) $(y + 6) - (-3y - 8)$

8) $(x^2 + 3x + 2) - (x^2 - 4x + 1)$

9) $(x^2 + 2x + 1) - (4x^2 - 3x + 7)$

10) $(a^2 + 5ab - 2c) - (3a^2 + ab - c)$

11) $(x^2 - 8x + 7) - (5x^2 + 9)$

12) $(4y^2 + 6y + 10) - (2y^2 - 5y + 10)$