

Name: _____

Operations with Polynomial Functions

Exercise 1: Perform the indicated operations and simplify:

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

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

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

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

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

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

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

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

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

4) $x^7 - 4x^4 + 2x + 6x^5 - 3x^4 - 5x$

$(x^7 - 4x^4 + 2x) - (6x^5 - 3x^4 - 5x)$

$(x^7 - 4x^4 + 2x)(6x^5 - 3x^4 - 5x)$