



Multiplying Polynomials

Version 1

Name: _____

Date: _____

Score: _____

Direction: Simplify by multiplying the polynomials, and combining like terms. Show all your work in the space provided.

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

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

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

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

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



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$$1) 2x(3x^2 + x - 1) = 6x^3 + 2x^2 - 2x$$

$$2) -5x(x+1) - 3(x^2 + 1) = -8x^2 - 5x - 3$$

$$3) (x-3)(x+2) + (-2x+5)(x-1) = -x^2 + 6x - 11$$

$$4) (7x-5)(-x^2 + x - 2) = -7x^3 + 12x^2 - 19x + 10$$

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