



Multiplying Polynomials

Version 2

Name: _____

Date: _____

Score: _____

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

$$1) -x(x^2 - 3x - 7) =$$

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

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

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

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



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$$1) -x(x^2 - 3x - 7) = -x^3 + 3x^2 + 7x$$

$$2) -4x(-x - 1) + 5(x^2 - 1) = 9x^2 + 4x - 5$$

$$3) (x - 1)(x - 1) + (-2x - 5)(-2x - 5) = 5x^2 + 18x + 26$$

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

$$5) (-x - 1)(x + 1) - 5(x^2 + x + 1) = -6x^2 - 7x - 6$$