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Tuesday, October 02, 2012
9:59 AMMultiple/Divide Polynomials by Monomials

Remember: $a(b+c) = a \cdot b + a \cdot c$ distributive property

Exs:

$$(1) \quad 5x(x^2 - 2x + 4)$$

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

$$= 5x^3 - 10x^2 + 20x$$

$$(2) \quad -3a^2b(4ab^2 - 3b^2)$$

$$-3a^2b(4ab^2) - 3a^2b(-3b^2)$$

$$-12a^3b^3 + 9a^2b^3$$

$$(3) \quad \frac{10x^2 - 4x + 2}{2} \Rightarrow \frac{10x^2}{2} - \frac{4x}{2} + \frac{2}{2}$$

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

$$(4) \quad \frac{15y^4 - 12xy^3 - 3y}{3y} \Rightarrow \frac{15y^4}{3y} - \frac{12xy^3}{3y} - \frac{3y}{3y}$$

$$= 5y^3 - 4xy^2 - 1$$