9 - 4
Multiply a Polynomial by a Monomial

Distributive Property

$$3(x + 4)$$

$$\boxed{3x + 12}$$

$$-2(x - 6)$$

$$\boxed{-2x + 12}$$

Ex: $\quad 3x(x + 4)$

$$\boxed{3x^2 + 12x}$$

Ex: $\quad -2x(x^2 - 3x + 11)$

$$\boxed{-2x^3 + 6x^2 - 22x}$$

Ex: $-n(n^3 + 2n)$

$$\boxed{-n^4 - 2n^2}$$

Homework:

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