

8-1 Adding & Subtracting Polynomials

1. Classify the polynomial $4x^3 - 2$ as indicated:

a. by degree:

Cubic

b. by number of terms:

binomial

2. Give an example of a **quadratic trinomial**.

answers will vary

3. Find each sum or difference. Express your answer in standard form.

a. $(5x - 8x^2) + (x - 6)$

$$5x - 8x^2 + x - 6$$

$$\boxed{-8x^2 + 6x - 6}$$

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

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

$$\boxed{4x^3 - 6x^2 + 4x - 5}$$