

## Adding Polynomials

Adding polynomials is basically the same as the addition of numbers with units.

You can only add terms that are similar.

Ex.

$2 \text{ apples} + 3 \text{ oranges} + 5 \text{ apples} = (2 + 5) \text{ apples} + 3 \text{ oranges} = 7 \text{ apples} + 3 \text{ oranges}$  (you can't add apples and oranges)

Ex.

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

Ex.

$$5y + 3x + 8y + 4x = (5 + 8)y + (3 + 4)x = 13y + 7x$$

Ex.

$$2x^2 + 3x^2 + 4x^3 = 5x^2 + 4x^3 \text{ (note: } x^2 \text{ and } x^3 \text{ are not similar terms)}$$