## MPM1DI: UNIT 2 – Algebra 2.4: Distributive Property

**Recall:**  $-(3x^2 - 5x)$ 

## **Definition of the Distributive Property:**

When a polynomial is **expanded**, each term of the polynomial is multiplied or divided by the constant.

## **Examples:**

1. Expand the following:

a)  $2(3x^2-5x)$ b)  $-2(3x^2-5x)$ 

2. Expand the following and then simplify by collecting like terms:

a)  $-3(6x^2+5)+4(3x^2+x-2)$ b)  $-4(-3b^2-b+4)-2(6b+3)$ 

c) 
$$\frac{3}{5}\left(\frac{1}{2}y^2 - \frac{3}{4}y + \frac{1}{2}\right) - \frac{1}{2}\left(\frac{1}{5}y^2 + \frac{5}{4}y - \frac{3}{5}\right)$$

Homework: p.263-265 #[6, 10-12](odd), 14, 15, B16