

## MA091 – Solving Linear Equations

What is an equation?

What are *equivalent equations*?

Addition Property of Equality

Multiplication Property of Equality

Example 1

$$2x + 5 = 9$$

Example 2

$$3(x + 5) - 2 = 7$$

Example 3

$$7x - 2 = 3x + 7$$

Example 4

$$4(x + 2) - 5 = 4x + 10$$

Example 5

$$5 - 3(x + 2) = x - 1$$

Example 6

$$3x + 5 = 3(x + 2) - 1$$

Example 7

$$\frac{x}{2} - \frac{5}{2} = \frac{3}{2}$$

Example 8

$$\frac{x}{3} - \frac{7}{6} = \frac{1}{2}$$

Example 9

$$0.4x - 1.2x = 5.2$$