

Equations by Collecting Like Terms

$$4x + 4 = 16 - 2x$$

$$4x + 4 - 4 = 16 - 4 - 2x$$

$$4x = 12 - 2x$$

$$4x + 2x = 12 - 2x + 2x$$

$$6x = 12$$

$$\frac{6x}{6} = \frac{12}{6}$$

$$x = 2$$

a) $5x - 7 = 2x + 8$

b) $4x + 4 = 10 - 2x$

c) $4x + 4 = 10 - 2x$