

Chapter 5: Equations and Inequalities

**1.35**

Equation of the following equation

Equation:  $4(x - 3) = 2(x + 5)$

Your Answer:

Feedback:

Your Submission: 100%

Equation:  $4(x - 3) = 2(x + 5)$

$$4x - 12 = 2x + 10$$

$$4x - 2x = 10 + 12$$

$$2x = 22$$

$$x = \frac{22}{2} = 11$$

**1.36**

Equation of the following equation

Equation:  $3x + 2 = 5x - 4$

Your Answer:

Feedback:

Your Submission: 100%

Equation:  $3x + 2 = 5x - 4$

$$3x - 5x = -4 - 2$$

$$-2x = -6$$

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

**1.37**

Equation of the following equation

Equation:  $2(x + 1) = 3(x - 2)$

Your Answer:

Feedback:

Your Submission: 100%

Equation:  $2(x + 1) = 3(x - 2)$

$$2x + 2 = 3x - 6$$

$$2x - 3x = -6 - 2$$

$$-x = -8$$

$$x = 8$$

**1.38**

Equation of the following equation

Equation:  $4(x - 2) = 2(x + 3)$

Your Answer:

Feedback:

Your Submission: 100%

Equation:  $4(x - 2) = 2(x + 3)$

$$4x - 8 = 2x + 6$$

$$4x - 2x = 6 + 8$$

$$2x = 14$$

$$x = \frac{14}{2} = 7$$

**1.39**

Equation of the following equation

Equation:  $3(x + 4) = 2(x - 1)$

Your Answer:

Feedback:

Your Submission: 100%

Equation:  $3(x + 4) = 2(x - 1)$

$$3x + 12 = 2x - 2$$

$$3x - 2x = -2 - 12$$

$$x = -14$$

**1.40**

Equation of the following equation

Equation:  $2(x - 3) = 4(x + 1)$

Your Answer:

Feedback:

Your Submission: 100%

Equation:  $2(x - 3) = 4(x + 1)$

$$2x - 6 = 4x + 4$$

$$2x - 4x = 4 + 6$$

$$-2x = 10$$

$$x = \frac{10}{-2} = -5$$