

ALGEBRA: Solving simultaneous linear equations with two unknowns

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Date:

Name:

Solve the following simultaneous equations

[1]

$$x + 2y = 4$$

$$x + 5y = 7$$

[2]

$$3x + 5y = 44$$

$$x + 2y = 17$$

[3]

$$2x + 3y = -1$$

$$6x + 5y = 9$$

[4]

$$x + y = 16$$

$$x - y = 8$$

[5]

$$4x + 2y = -22$$

$$4x - 4y = -4$$

[6]

$$4x - 5y = 17$$

$$3x + 5y = -31$$

[7]

$$2x + 5y = -49.4$$

$$y = x + 4$$

[8]

$$4x + 3y = -50$$

$$y = 3x - 5$$

[9]

$$3y = 3x + 27$$

$$3x - 6y = 9$$

[10]

$$4x - 5y = 7$$

$$2y = 3x - 14$$

[11]

$$7y = 2x - (11)$$

$$5x - 3y = 13$$

[12]

$$7y = 2x - (11)$$

$$5x - 3y = 13$$

[13]

$$4x + 2y + 7 = 41$$

$$4x - 2y = 14$$

[14]

$$5x - 7y + 17 = 48$$

$$14x - 7y = 112$$

[15]

$$2x - 7y - 19 = -9$$

$$14x + 7y = 182$$

[16]

$$5x - 6y - 14 = 14$$

$$12x - 6y = 126$$

ANSWERS

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Solve the following simultaneous equations

[1] $x = 2 \quad y = 1$

[2] $x = 3 \quad y = 7$

[3] $x = 4 \quad y = -3$

[4] $x = 12 \quad y = 4$

[5] $x = -4 \quad y = -3$

[6] $x = -2 \quad y = -5$

[7] $x = -4.2 \quad y = -8.2$

[8] $x = 5 \quad y = 10$

[9] $x = 7 \quad y = 2$

[10] $x = 8 \quad y = 5$

[11] $x = 2 \quad y = -1$

[12] $x = 2 \quad y = -1$

[13] $x = 6 \quad y = 5$

[14] $x = 9 \quad y = 2$

[15] $x = 12 \quad y = 2$

[16] $x = 14 \quad y = 7$