

## ALGEBRA: Solving simultaneous linear equations with two unknowns

<http://www.learnersgrid.com>

Date:

Name:

*Solve the following simultaneous equations*

[1]

$$x + 3y = 19$$

$$x + 5y = 29$$

[2]

$$2x + 5y = 53$$

$$x + 2y = 22$$

[3]

$$3x + 3y = 15$$

$$6x + 5y = 32$$

[4]

$$x + y = 15$$

$$x - y = 11$$

[5]

$$2x + 3y = -25$$

$$2x - 6y = 20$$

[6]

$$4x - 6y = 12$$

$$3x + 3y = -21$$

[7]

$$3x + 4y = -38.6$$

$$y = x + 3$$

[8]

$$5x + 2y = -8$$

$$y = 2x - 5$$

[9]

$$2y = 3x + 30$$

$$4x - 4y = 20$$

[10]

$$5x - 5y = 20$$

$$3y = 4x - 22$$

[11]

$$5y = 3x - (-10)$$

$$4x - 2y = 10$$

[12]

$$5y = 3x - (-11)$$

$$4x - 3y = 0$$

[13]

$$5x + 3y + 10 = 47$$

$$6x - 3y = 18$$

[14]

$$4x - 3y + 11 = 37$$

$$6x - 3y = 42$$

[15]

$$2x - 3y - 8 = -1$$

$$6x + 3y = 81$$

[16]

$$3x - 8y - 18 = -43$$

$$16x - 8y = 144$$

# ANSWERS

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*Solve the following simultaneous equations*

[1]  
 $x = 4 \quad y = 5$

[2]  
 $x = 4 \quad y = 9$

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

[4]  
 $x = 13 \quad y = 2$

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

[6]  
 $x = -3 \quad y = -4$

[7]  
 $x = -3.8 \quad y = -6.8$

[8]  
 $x = 2 \quad y = -1$

[9]  
 $x = 8 \quad y = 3$

[10]  
 $x = 10 \quad y = 6$

[11]  
 $x = 5 \quad y = 5$

[12]  
 $x = 3 \quad y = 4$

[13]  
 $x = 5 \quad y = 4$

[14]  
 $x = 8 \quad y = 2$

[15]  
 $x = 11 \quad y = 5$

[16]  
 $x = 13 \quad y = 8$