Systems of Equations

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Solve each system of equations.

1) $5x + 3y = -12$
$5x + 7y = -8$
$x =$ __ $y =$ __

2) $2x + 5y = 30$
$7x + 7y = 63$
$x =$ __ $y =$ __

3) $3x + 6y = 12$
$4x + 7y = 13$
$x =$ __ $y =$ __

4) $5x + 4y = -27$
$6x + 7y = -39$
$x =$ __ $y =$ __

5) $4x + 3y = -18$
$3x + 2y = -13$
$x =$ __ $y =$ __

6) $4x + 7y = 18$
$6x + 3y = 12$
$x =$ __ $y =$ __

7) $3x + 4y = 4$
$6x + 6y = 6$
$x =$ __ $y =$ __

8) $5x + 6y = -14$
$3x + 2y = -10$
$x =$ __ $y =$ __

9) $2x + 4y = 14$
$7x + 4y = 39$
$x =$ __ $y =$ __

10) $4x + 6y = 6$
$7x + 6y = -3$
$x =$ __ $y =$ __

11) $5x + 5y = 10$
$3x + 4y = 8$
$x =$ __ $y =$ __

12) $5x + 4y = -7$
$7x + 5y = -11$
$x =$ __ $y =$ __

13) $5x + 7y = -41$
$5x + 5y = -35$
$x =$ __ $y =$ __

14) $5x + 3y = -3$
$3x + 2y = -2$
$x =$ __ $y =$ __

15) $4x + 7y = -22$
$6x + 4y = -20$
$x =$ __ $y =$ __

16) $3x + 6y = 6$
$4x + 2y = 8$
$x =$ __ $y =$ __

17) $4x + 2y = 6$
$6x + 2y = 8$
$x =$ __ $y =$ __

18) $3x + 3y = 21$
$5x + 2y = 23$
$x =$ __ $y =$ __

Answers of Systems of Equations

Solve each system of equations.

1) $5x + 3y = -12$, $5x + 7y = -8$
$x = -3 \quad y = 1$

2) $2x + 5y = 30$, $7x + 7y = 63$
$x = 5 \quad y = 4$

3) $3x + 6y = 12$, $4x + 7y = 13$
$x = -2 \quad y = 3$

4) $5x + 4y = -27$, $6x + 7y = -39$
$x = -3 \quad y = -3$

5) $4x + 3y = -18$, $3x + 2y = -13$
$x = -3 \quad y = -2$

6) $4x + 7y = 18$, $6x + 3y = 12$
$x = 1 \quad y = 2$

7) $3x + 4y = 4$, $6x + 6y = 6$
$x = 0 \quad y = 1$

8) $5x + 6y = -14$, $3x + 2y = -10$
$x = -4 \quad y = 1$

9) $2x + 4y = 14$, $7x + 4y = 39$
$x = 5 \quad y = 1$

10) $4x + 6y = 6$, $7x + 6y = -3$
$x = -3 \quad y = 3$

11) $5x + 5y = 10$, $3x + 4y = 8$
$x = 0 \quad y = 2$

12) $5x + 4y = -7$, $7x + 5y = -11$
$x = -3 \quad y = 2$

13) $5x + 7y = -41$, $5x + 5y = -35$
$x = -4 \quad y = -3$

14) $5x + 3y = -3$, $3x + 2y = -2$
$x = 0 \quad y = -1$

15) $4x + 7y = -22$, $6x + 4y = -20$
$x = -2 \quad y = -2$

16) $3x + 6y = 6$, $4x + 2y = 8$
$x = 2 \quad y = 0$

17) $4x + 2y = 6$, $6x + 2y = 8$
$x = 1 \quad y = 1$

18) $3x + 3y = 21$, $5x + 2y = 23$
$x = 3 \quad y = 4$