

Solve:

1.  $3x - 2y = 6$

$y = x - 3$

[A] no solution

[B]  $\left(-3, -\frac{15}{2}\right)$

[C] (1, -2)

[D] (0, -3)

2.  $x - 2y = -5$

$y = 3x + 5$

[A] (-1, 2)

[B] no solution

[C] (0, 5)

[D]  $\left(2, \frac{7}{2}\right)$

3. Solve the system using substitution.

$4x + 4y = -2$

$y = -x$

[A] no solution

[B]  $\left(0, -\frac{1}{2}\right)$

[C] (-5, 5)

[D]  $\left(-\frac{1}{2}, \frac{1}{2}\right)$

4. Solve the system using substitution.

$3x + 2y = -14$

$y = x + 3$

[A]  $\left(-1, -\frac{11}{2}\right)$

[B] no solution

[C] (-4, -1)

[D] (-3, 0)

5. Solve the system using substitution.

$x + 4y = -19$

$y = 3x - 21$

[A]  $\left(-6, -\frac{13}{4}\right)$

[B] no solution

[C] (6, -3)

[D] (5, -6)

6. Solve the system using substitution.

$x + 4y = -15$

$y = 3x - 20$

[A] (6, -2)

[B]  $\left(-5, -\frac{5}{2}\right)$

[C] no solution

[D] (5, -5)

Solve the system by substitution:

7.  $x + 4y = 8$

$-16y = 4x - 32$

8.  $x - 2y = -4$

$4x = 8y - 12$

9. Which system has no solution?

[A]  $4x - 2y = 1$

[B]  $3x - y = 3$

$y = 2x - 7$

$y = -3x + 3$

[C]  $y = 2x + 2$

[D]  $y = 2x$

$x - 2y = 1$

$2x + y = 1$

[E]  $y = -x + 1$

$x - y = 1$

10. Compare the quantity in Column A with the quantity in Column B.

 $x$ -coordinates of the solution

Column A  
 $y = -2x$

Column B  
 $y = x + 2$

$x + y = 5$

$x + 2y = -11$

[A] The quantity in Column A is greater.

[B] The quantity in Column B is greater.

[C] The two quantities are equal.

[D] The relationships cannot be determined on the basis of the information supplied.

- [1] D
- [2] A
- [3] A
- [4] C
- [5] D
- [6] D
- [7] dependent (many solutions)
- [8] inconsistent (no solution)
- [9] A
- [10] C

- [1] D
- [2] A
- [3] A
- [4] C
- [5] D
- [6] D
- [7] dependent (many solutions)
- [8] inconsistent (no solution)
- [9] A
- [10] C