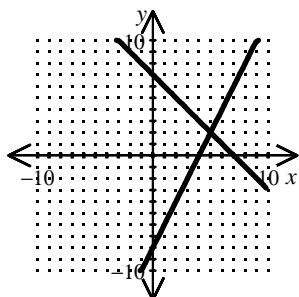


Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

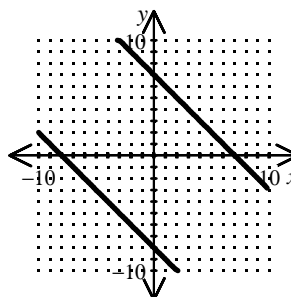
1.
$$\begin{cases} x + y = 7 \\ y = -x - 8 \end{cases}$$

[A]



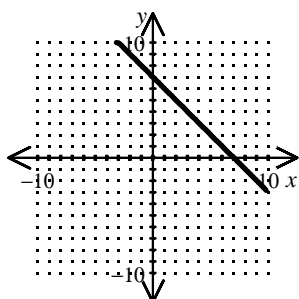
Independent; (5, 2)

[B]



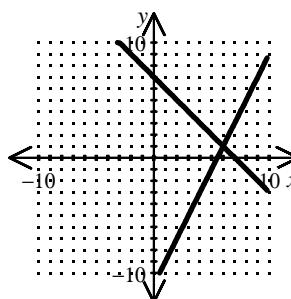
Inconsistent; no solution

[C]



Dependent; infinitely many solutions

[D]

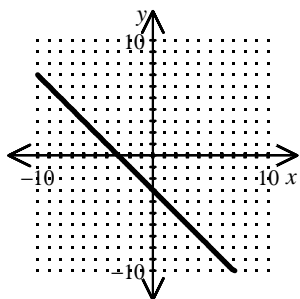


Independent; (6, 1)

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

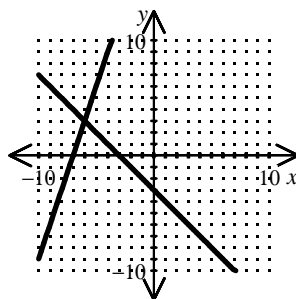
2.
$$\begin{cases} x + y = -3 \\ y = 3x + 21 \end{cases}$$

[A]



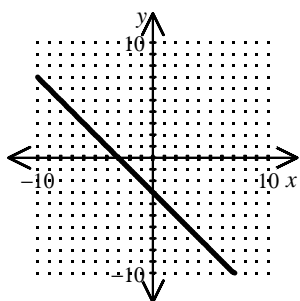
Inconsistent; no solution

[B]



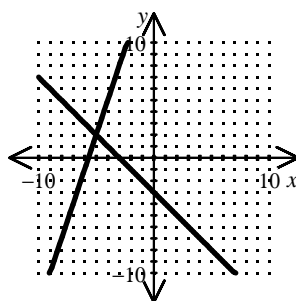
Independent; $(-6, 3)$

[C]



Dependent; infinitely many solutions

[D]

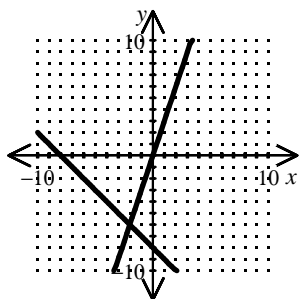


Independent; $(-5, 2)$

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

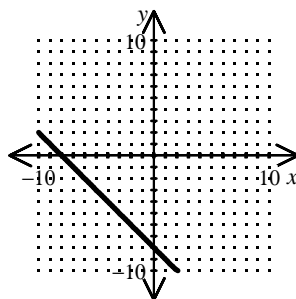
3.
$$\begin{cases} x + y = -8 \\ y = -x - 8 \end{cases}$$

[A]



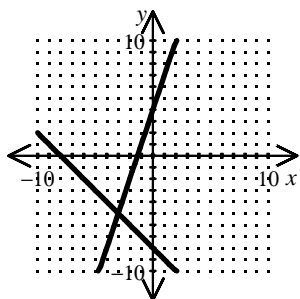
Independent; $(-2, -6)$

[B]



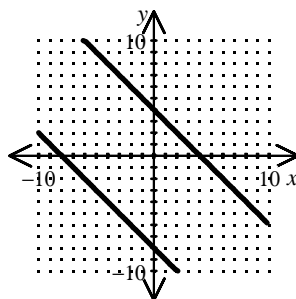
Dependent; infinitely many solutions

[C]



Independent; $(-3, -5)$

[D]

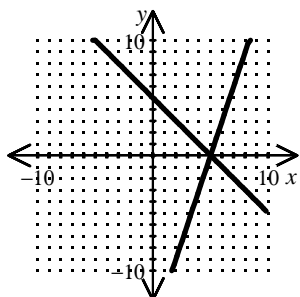


Inconsistent; no solution

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

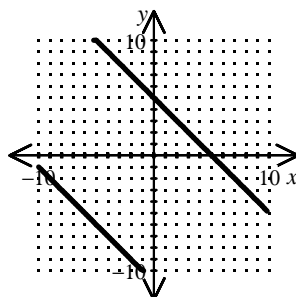
4.
$$\begin{cases} x + y = 5 \\ y = -x - 11 \end{cases}$$

[A]



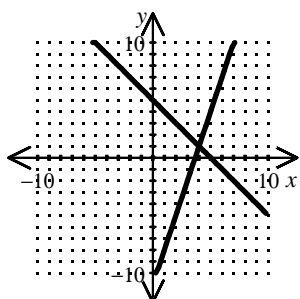
Independent; (5, 0)

[B]



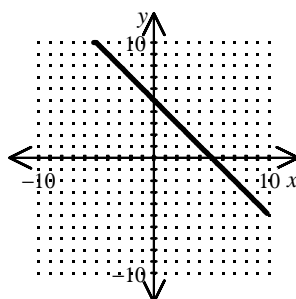
Inconsistent; no solution

[C]



Independent; (4, 1)

[D]

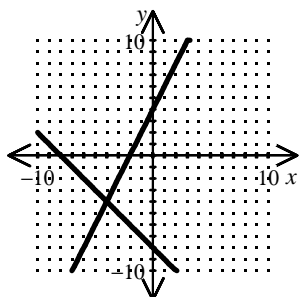


Dependent; infinitely many solutions

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

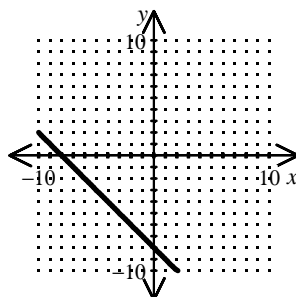
5.
$$\begin{cases} x + y = -8 \\ y = 2x + 7 \end{cases}$$

[A]



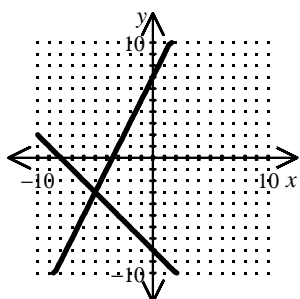
Independent; $(-4, -4)$

[B]



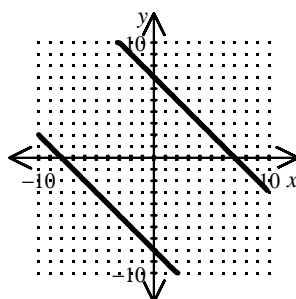
Dependent; infinitely many solutions

[C]



Independent; $(-5, -3)$

[D]

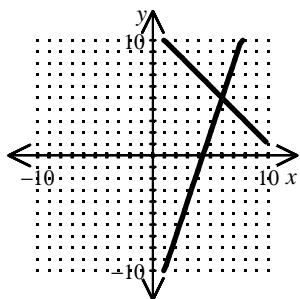


Inconsistent; no solution

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

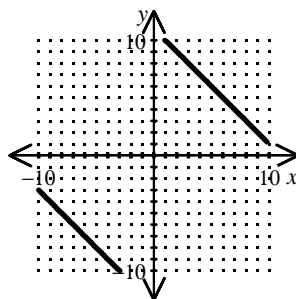
$$6. \begin{cases} x + y = 11 \\ y = -x + 11 \end{cases}$$

[A]



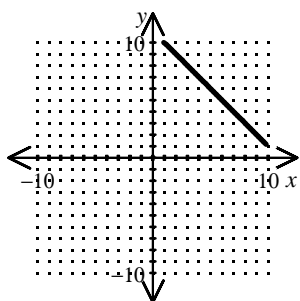
Independent; (6, 5)

[B]



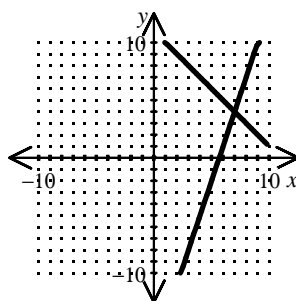
Inconsistent; no solution

[C]



Dependent; infinitely many solutions

[D]

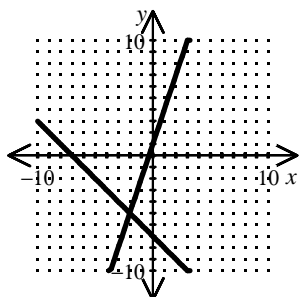


Independent; (7, 4)

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

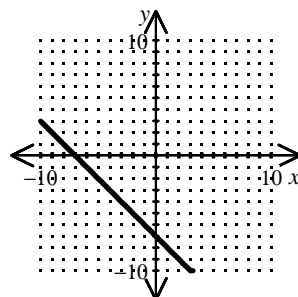
$$7. \begin{cases} x + y = -7 \\ y = 3x + 5 \end{cases}$$

[A]



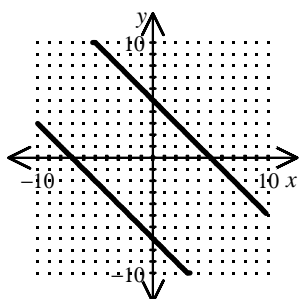
Independent; $(-2, -5)$

[B]



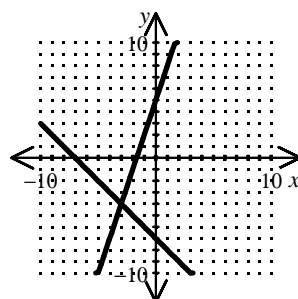
Dependent; infinitely many solutions

[C]



Inconsistent; no solution

[D]

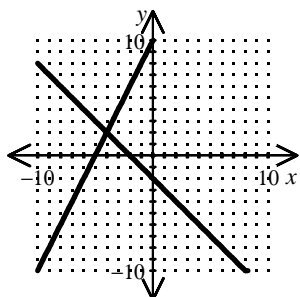


Independent; $(-3, -4)$

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

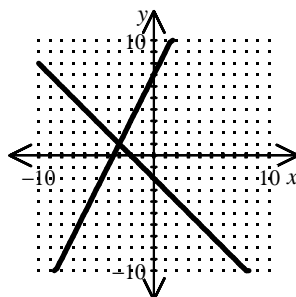
8.
$$\begin{cases} x + y = -2 \\ y = -x + 10 \end{cases}$$

[A]



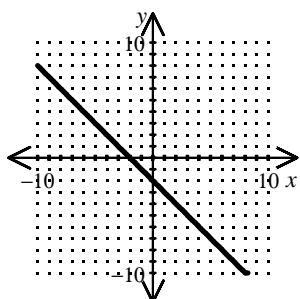
Independent; $(-4, 2)$

[B]



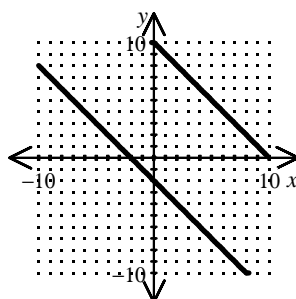
Independent; $(-3, 1)$

[C]



Dependent; infinitely many solutions

[D]

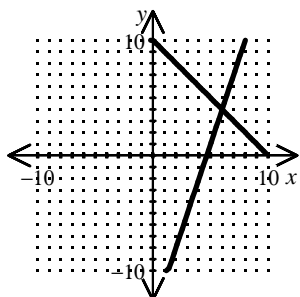


Inconsistent; no solution

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

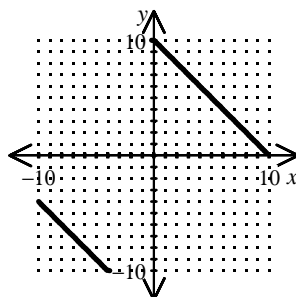
9.
$$\begin{cases} x + y = 10 \\ y = -x + 10 \end{cases}$$

[A]



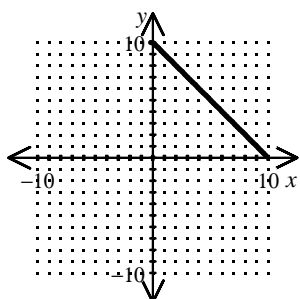
Independent; (6, 4)

[B]



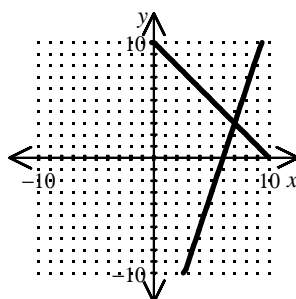
Inconsistent; no solution

[C]



Dependent; infinitely many solutions

[D]

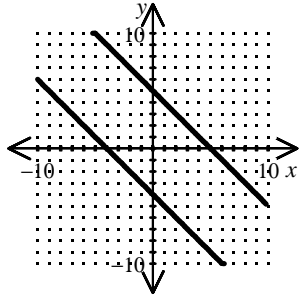


Independent; (7, 3)

Graph and classify the system of equations as *independent*, *inconsistent*, or *dependent*. If the system is independent, find the solution from the graph.

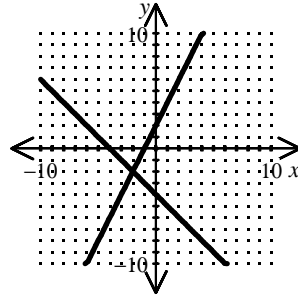
10.
$$\begin{cases} x + y = -4 \\ y = 2x + 5 \end{cases}$$

[A]



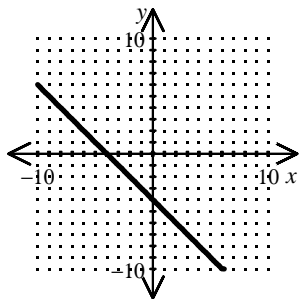
Inconsistent; no solution

[B]



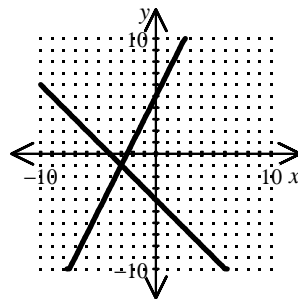
Independent; $(-2, -2)$

[C]



Dependent; infinitely many solutions

[D]



Independent; $(-3, -1)$

Use a graph to solve the system of equations.

11.
$$\begin{cases} x + y = -6 \\ y = 2x + 6 \end{cases}$$
 [A] $(12, -18)$ [B] $(-4, -2)$ [C] $(-2, -4)$ [D] $(-2, 2)$

12.
$$\begin{cases} x + y = -6 \\ y = 2x + 9 \end{cases}$$
 [A] $(15, -21)$ [B] $(-2, -4)$ [C] $(-3, 3)$ [D] $(-5, -1)$

13.
$$\begin{cases} x + y = 4 \\ y = 3x - 20 \end{cases}$$
 [A] $(6, -2)$ [B] $(5, -5)$ [C] $(-12, 16)$ [D] $(1, 3)$

Use a graph to solve the system of equations.

14. $\begin{cases} x + y = -3 \\ y = 2x + 15 \end{cases}$ [A] (-1, -2) [B] (-6, 3) [C] (-5, 5) [D] (18, -21)

15. $\begin{cases} x + y = -8 \\ y = 3x + 16 \end{cases}$ [A] (12, -20) [B] (-4, 4) [C] (-2, -6) [D] (-6, -2)

16. $\begin{cases} x + y = 3 \\ y = 2x + 6 \end{cases}$ [A] (-2, 2) [B] (-1, 4) [C] (1, 2) [D] (3, 0)

17. $\begin{cases} x + y = 8 \\ y = 3x - 12 \end{cases}$ [A] (2, 6) [B] (-10, 18) [C] (3, -3) [D] (5, 3)

18. $\begin{cases} x + y = 8 \\ y = 3x - 4 \end{cases}$ [A] (3, 5) [B] (1, -1) [C] (-6, 14) [D] (2, 6)

19. $\begin{cases} x + y = -3 \\ y = 2x - 9 \end{cases}$ [A] (-1, -2) [B] (3, -3) [C] (2, -5) [D] (-6, 3)

20. $\begin{cases} x + y = 3 \\ y = 2x - 12 \end{cases}$ [A] (4, -4) [B] (5, -2) [C] (1, 2) [D] (-15, 18)

21. $\begin{cases} x + y = -8 \\ y = 2x + 1 \end{cases}$

22. $\begin{cases} x + y = -4 \\ y = 3x \end{cases}$

23. $\begin{cases} x + y = 7 \\ y = 2x - 8 \end{cases}$

Use a graph to solve the system of equations.

$$24. \begin{cases} x + y = 7 \\ y = 3x - 17 \end{cases}$$

$$25. \begin{cases} x + y = -3 \\ y = 3x - 11 \end{cases}$$

$$26. \begin{cases} x + y = 3 \\ y = 2x \end{cases}$$

$$27. \begin{cases} x + y = -6 \\ y = 3x + 14 \end{cases}$$

$$28. \begin{cases} x + y = 2 \\ y = 2x - 16 \end{cases}$$

$$29. \begin{cases} x + y = 1 \\ y = 2x + 13 \end{cases}$$

$$30. \begin{cases} x + y = 1 \\ y = 3x + 9 \end{cases}$$

Solve the system of equations by substitution.

$$31. \begin{cases} x - 2y = -3 \\ -x + y = 3 \end{cases} \quad \text{[A] } (-3, 0) \quad \text{[B] } (-2, -3) \quad \text{[C] } (-2, 5) \quad \text{[D] } \left(0, 1\frac{1}{2}\right)$$

$$32. \begin{cases} x + 4y = -19 \\ 3x + y = -2 \end{cases} \quad \text{[A] } (1, -5) \quad \text{[B] } (-1, 1) \quad \text{[C] } (2, 4) \quad \text{[D] } \left(-5, -3\frac{1}{2}\right)$$

Solve the system of equations by substitution.

33. $\begin{cases} 3x+2y=21 \\ x+y=8 \end{cases}$ [A] (6, 14) [B] (5, 3) [C] (3, 6) [D] $\left(2\frac{3}{5}, 5\right)$

34. $\begin{cases} x+2y=-4 \\ x+y=-1 \end{cases}$ [A] (3, 2) [B] $\left(\frac{1}{3}, 2\right)$ [C] (2, -3) [D] $\left(-3, -\frac{1}{2}\right)$

35. $\begin{cases} x-4y=-4 \\ -3x+y=-10 \end{cases}$ [A] (4, 2) [B] $\left(3\frac{1}{3}, 4\right)$ [C] $\left(2, 1\frac{1}{2}\right)$ [D] (5, -25)

36. $\begin{cases} x+4y=-12 \\ 3x+y=-14 \end{cases}$
[A] $\left(-2, -2\frac{1}{2}\right)$ [B] (-3, -23) [C] $\left(-3\frac{1}{3}, -4\right)$ [D] (-4, -2)

37. $\begin{cases} x+2y=3 \\ x+y=-1 \end{cases}$ [A] (-5, 4) [B] (-2, -5) [C] $\left(4, -\frac{1}{2}\right)$ [D] (-4, -5)

38. $\begin{cases} 3x-4y=16 \\ -3x+y=-4 \end{cases}$ [A] (1, -7) [B] (0, -4) [C] (-4, -7) [D] $\left(-\frac{4}{5}, 0\right)$

39. $\begin{cases} 3x+4y=-2 \\ 3x+y=-5 \end{cases}$ [A] (-2, 1) [B] $\left(1, -1\frac{1}{4}\right)$ [C] $\left(-\frac{3}{5}, -2\right)$ [D] (-1, -8)

40. $\begin{cases} 3x-2y=-1 \\ -x+y=2 \end{cases}$ [A] (5, 8) [B] (4, -2) [C] $\left(2\frac{1}{5}, 3\right)$ [D] (3, 5)

Solve the system of equations by substitution.

$$41. \begin{cases} 2y = 10 \\ x + 3y + 3z = 22 \\ y + z = 8 \end{cases}$$

- [A] $(-2, 5, 3)$ [B] $(3, -2, 5)$ [C] $(5, 3, -2)$ [D] $(-1, 7, -3)$

$$42. \begin{cases} 5y = 5 \\ x + 4y + 2z = 12 \\ y - 4z = -7 \end{cases}$$

- [A] $(2, 4, 1)$ [B] $(1, 2, 4)$ [C] $(5, 3, -2)$ [D] $(4, 1, 2)$

$$43. \begin{cases} 4y = 12 \\ x + 2y + 3z = 13 \\ y + 4z = 19 \end{cases}$$

- [A] $(-5, 3, 4)$ [B] $(4, -5, 3)$ [C] $(3, 4, -5)$ [D] $(-4, 5, -4)$

$$44. \begin{cases} 3y = 6 \\ x + 4y + 2z = 19 \\ y - z = -3 \end{cases}$$

- [A] $(2, 4, -5)$ [B] $(5, 1, 2)$ [C] $(1, 2, 5)$ [D] $(2, 5, 1)$

$$45. \begin{cases} 5y = 20 \\ x + y + 2z = 3 \\ y - 4z = 0 \end{cases}$$

- [A] $(4, 1, -3)$ [B] $(-3, 4, 1)$ [C] $(-2, 6, -1)$ [D] $(1, -3, 4)$

$$46. \begin{cases} -4x + y = 16 \\ -8x + 6y = 48 \end{cases}$$

$$47. \begin{cases} 3x + y = 19 \\ -2x + 7y = -51 \end{cases}$$

Solve the system of equations by substitution.

$$48. \begin{cases} 6x + y = -44 \\ -7x - 2y = 53 \end{cases}$$

$$49. \begin{cases} 7x + y = -40 \\ -3x + 2y = 22 \end{cases}$$

$$50. \begin{cases} -8x + y = 31 \\ 5x + 6y = -79 \end{cases}$$

$$51. \begin{cases} -6x + y = -22 \\ -2x + 4y = -22 \end{cases}$$

$$52. \begin{cases} 7x + y = -49 \\ 5x - 3y = -9 \end{cases}$$

$$53. \begin{cases} 3x + y = -27 \\ 7x + 5y = -71 \end{cases}$$

$$54. \begin{cases} -2x + y = -22 \\ 6x - 7y = 82 \end{cases}$$

$$55. \begin{cases} 2x + y = 22 \\ -6x + 3y = -30 \end{cases}$$

$$56. \begin{cases} 4y = 4 \\ x + 2y + z = 9 \\ y - 3z = -14 \end{cases}$$

Solve the system of equations by substitution.

$$57. \begin{cases} 5y = 20 \\ x + 4y + 2z = 17 \\ y + 4z = 12 \end{cases}$$

$$58. \begin{cases} 2y = 10 \\ x + 4y + 4z = 31 \\ y - 3z = -4 \end{cases}$$

$$59. \begin{cases} 3y = 6 \\ x + y + z = 7 \\ y - 2z = 0 \end{cases}$$

$$60. \begin{cases} 2y = 6 \\ x + y + z = 12 \\ y + 2z = 11 \end{cases}$$

Use elimination to solve the system of equations.

$$61. \begin{cases} 4x + 3y = -18 \\ 3x - 3y = -3 \end{cases}$$

[A] $(-30, -2)$ [B] $\left(-2, -\frac{10}{3}\right)$ [C] $(0, -6)$ [D] $(-3, -2)$

$$62. \begin{cases} 2x + 4y = -14 \\ x - 4y = 17 \end{cases}$$

[A] $\left(-4, -\frac{3}{2}\right)$ [B] $(-12, -4)$ [C] $(1, -4)$ [D] $\left(0, -\frac{7}{2}\right)$

$$63. \begin{cases} 2x - 5y = -17 \\ 3x + 5y = 12 \end{cases} \quad \text{[A] } \left(0, \frac{17}{5}\right) \quad \text{[B] } (-1, 3) \quad \text{[C] } \left(3, \frac{23}{5}\right) \quad \text{[D] } (-19, 3)$$

Use elimination to solve the system of equations.

64.
$$\begin{cases} 4x + 2y = -18 \\ x - 2y = -7 \end{cases}$$
 [A] (1, -11) [B] (-38, 1) [C] (0, -9) [D] (-5, 1)

65.
$$\begin{cases} 2x + y = -13 \\ 3x - y = -7 \end{cases}$$
 [A] (0, -13) [B] (-21, -5) [C] (-5, -3) [D] (-4, -5)

66.
$$\begin{cases} 4x + 4y = -4 \\ x - 4y = 14 \end{cases}$$
 [A] (0, -1) [B] (2, -3) [C] (-3, 2) [D] (4, -3)

67.
$$\begin{cases} 2x + 5y = 6 \\ 3x - 5y = -16 \end{cases}$$
 [A] (2, 2) [B] $\left(0, \frac{6}{5}\right)$ [C] $\left(2, \frac{2}{5}\right)$ [D] (-2, 2)

68.
$$\begin{cases} 4x + 3y = 8 \\ x - 3y = 17 \end{cases}$$
 [A] (5, -4) [B] $\left(0, \frac{8}{3}\right)$ [C] (-4, 8) [D] (28, -4)

69.
$$\begin{cases} 2x - 2y = 4 \\ x + 2y = 5 \end{cases}$$
 [A] (0, -2) [B] (10, 1) [C] (3, 1) [D] (1, -1)

70.
$$\begin{cases} 4x + y = 13 \\ 3x - y = 15 \end{cases}$$
 [A] (-3, 25) [B] (0, 13) [C] (29, -3) [D] (4, -3)

71.
$$\begin{cases} 2x + y = -1 \\ 5x + 2y = 4 \end{cases}$$

[A] (6, -13) [B] (-2, 1) [C] infinitely many [D] no solution

72.
$$\begin{cases} 4x - 3y = 3 \\ 5x + 4y = -2 \end{cases}$$

[A] $\left(\frac{6}{31}, -\frac{23}{31}\right)$ [B] (-3, 4) [C] infinitely many [D] no solution

Use elimination to solve the system of equations.

73.
$$\begin{cases} 4x + 5y = 1 \\ x - 2y = -2 \end{cases}$$

[A] $(-4, 5)$ [B] $\left(-\frac{8}{13}, \frac{9}{13}\right)$ [C] infinitely many [D] no solution

74.
$$\begin{cases} 2x - 5y = 5 \\ -8x + 20y = 5 \end{cases}$$

[A] $(-5, 2)$ [B] $\left(\frac{40}{13}, \frac{3}{13}\right)$ [C] infinitely many [D] no solution

75.
$$\begin{cases} 4x - y = -5 \\ 3x + 4y = -4 \end{cases}$$

[A] $(-1, 4)$ [B] $\left(-\frac{24}{19}, -\frac{1}{19}\right)$ [C] infinitely many [D] no solution

76.
$$\begin{cases} -10x + 4y = -4 \\ 5x - 2y = 2 \end{cases}$$

[A] $(0, -1)$ [B] $(-6, 3)$ [C] infinitely many [D] no solution

77.
$$\begin{cases} 2x - y = 7 \\ 5x + 4y = 2 \end{cases}$$

[A] $\left(\frac{30}{13}, -\frac{31}{13}\right)$ [B] $(-1, 2)$ [C] infinitely many [D] no solution

78.
$$\begin{cases} 4x - 3y = 5 \\ -12x + 9y = -15 \end{cases}$$

[A] $\left(-\frac{2}{17}, -\frac{31}{17}\right)$ [B] $(8, -3)$ [C] infinitely many [D] no solution

79.
$$\begin{cases} 9x + 12y = 6 \\ 3x + 4y = -2 \end{cases}$$
 [A] $(1, 2)$ [B] $(-2, 1)$ [C] infinitely many [D] no solution

Use elimination to solve the system of equations.

$$80. \begin{cases} 4x - y = -1 \\ x - 2y = -4 \end{cases}$$

[A] $(0, -1)$ [B] $\left(\frac{2}{7}, \frac{15}{7}\right)$ [C] infinitely many [D] no solution

$$81. \begin{cases} 8x - 3y = -29 \\ 3x + y = -13 \end{cases}$$

$$82. \begin{cases} 4x - 5y = 43 \\ 5x + 6y = 17 \end{cases}$$

$$83. \begin{cases} 3x + 2y = -13 \\ 5x + 6y = -11 \end{cases}$$

$$84. \begin{cases} 4x - 5y = 31 \\ 5x + y = 17 \end{cases}$$

$$85. \begin{cases} 9x + 4y = -49 \\ 7x - 8y = -127 \end{cases}$$

$$86. \begin{cases} 5x + y = 12 \\ 7x - 2y = 27 \end{cases}$$

$$87. \begin{cases} 3x - 7y = 19 \\ 7x - 3y = 31 \end{cases}$$

$$88. \begin{cases} 8x + 7y = 33 \\ 5x - 4y = -38 \end{cases}$$

Use elimination to solve the system of equations.

$$89. \begin{cases} 5x + 2y = 27 \\ 6x - y = 29 \end{cases}$$

$$90. \begin{cases} 9x - 8y = -64 \\ 7x - 6y = -50 \end{cases}$$

$$91. \begin{cases} 2x - y = -5 \\ 3x - 4y = -10 \end{cases}$$

$$92. \begin{cases} 7x - 6y = 1 \\ 9x - 4y = 31 \end{cases}$$

$$93. \begin{cases} 3x - 5y = -11 \\ 9x - 15y = 33 \end{cases}$$

$$94. \begin{cases} 7x - 6y = -53 \\ 5x + 8y = -1 \end{cases}$$

$$95. \begin{cases} 2x - 3y = -23 \\ 8x + 7y = 3 \end{cases}$$

$$96. \begin{cases} 7x + 4y = 11 \\ 5x - 8y = -79 \end{cases}$$

$$97. \begin{cases} 8x + 28y = 100 \\ 2x + 7y = 25 \end{cases}$$

$$98. \begin{cases} 9x - 2y = -59 \\ 18x - 4y = -118 \end{cases}$$

Use elimination to solve the system of equations.

$$99. \begin{cases} 5x + y = -39 \\ 3x - 7y = 7 \end{cases}$$