

Which ordered pair (x, y) satisfies the system of equations shown above?

- A) (-2,-3)
- B) (-3,-2)
- C) (-1,2)
- D) (-2,0)

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$$\frac{1}{2}x + y = 1$$
$$-2x - y = 5$$

If (x, y) is a solution to the system of equations above, what is the value of x + y?

A) -2
B) -1
C) 1
D) 2

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$$2x - ky = 14$$
$$5x - 2y = 5$$

In the system of equations above, k is a constant and x and y are variables. For what values of kwill the system of equations have no solution?

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Exercises - Solving Systems of Linear Equations

Which of the following systems of equations has infinitely many solutions?

A)
$$x + y = 1$$

 $x - y = 1$
B) $-2x + y = 1$
 $-2x + y = 5$
C) $\frac{1}{2}x - \frac{1}{3}y = 1$
 $3x - 2y = 6$
D) $2x + 3y = 1$
 $3x - 2y = 1$

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ax - y = 0x - by = 1

In the system of equations above, a and b are constants and x and y are variables. If the system of equations above has no solution, what is the value of $a \cdot b$?

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In the system of equations above, a is a constant and x and y are variables. For what values of awill the system of equations have infinitely many solution?