

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	

ID: cb8f449f

$\frac{1}{2}y = 4$
$x - \frac{1}{2}y = 2$

The system of equations above has solution (x, y). What is the value of x ?

- A. 3
- B. $\frac{7}{2}$
- C. 4
- D. 6

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ID: 71189542

A group of 202 people went on an overnight camping trip, taking 60 tents with them. Some of the tents held 2 people each, and the rest held 4 people each. Assuming all the tents were filled to capacity and every person got to sleep in a tent, exactly how many of the tents were 2-person tents?

- A. 30
- B. 20
- C. 19
- D. 18

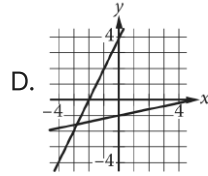
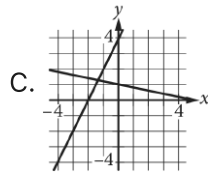
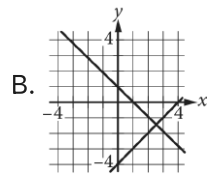
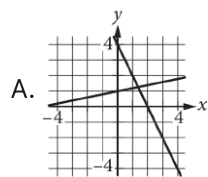
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ID: 6e6a3241

$x + 5y = 5$

$2x - y = -4$

Which of the following graphs in the xy -plane could be used to solve the system of equations above?



Question ID f5929f7a

2.4

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ID: f5929f7a

$$y = -\frac{1}{9}x$$

$$y = \frac{1}{2}x$$

The solution to the given system of equations is (x, y) . What is the value of x ?

- A. -9
- B. -7
- C. 0
- D. 2

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ID: ed92fb68

$$4x + 5y = 100$$

$$5x + 4y = 62$$

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

- A. 0
- B. 9
- C. 18
- D. 38

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ID: 19fdf387

In the xy -plane, the graph of $y = x + 3$ intersects the graph of $y = 2x - 6$ at the point (a, b) . What is the value of a ?

- A. 3
- B. 6
- C. 9
- D. 12

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ID: c5082ce3

The score on a trivia game is obtained by subtracting the number of incorrect answers from twice the number of correct answers. If a player answered 40 questions and obtained a score of 50, how many questions did the player answer correctly?

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ID: 092ad67d

$$x + 2y = 6$$

$$x - 2y = 4$$

The solution to the given system of equations is (x, y) . What is the value of x ?

- A. 2.5
- B. 5
- C. 6
- D. 10

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ID: e77a76ce

Which of the following systems of linear equations has no solution?

- A.

$y = 6x + 3$

$y = 6x + 9$
- B.

$y = 10$

$y = 10x + 10$
- C.

$y = 14x + 14$

$y = 10x + 14$
- D.

$x = 3$

$y = 10$

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ID: 5e422ff9

$y = 2x - 3$

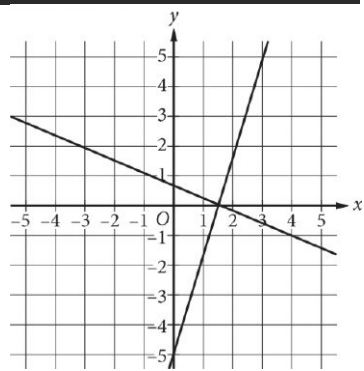
$3y = 5x$

In the solution to the system of equations above, what is the value of y ?

- A. -15
- B. -9
- C. 9
- D. 15

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ID: 2704399f



Which of the following systems of equations has the same solution as the system of equations graphed above?

- $y = 0$

A. $x = \frac{3}{2}$
- $y = \frac{3}{2}$

B. $x = 0$
- $y = 0$

C. $x = 1$
- $y = 1$

D. $x = 0$

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ID: b544a348

$5x + 3y = 38$

$x + 3y = 10$

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

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ID: e53688cb

$$x + 3y = 29$$
$$3y = 11$$

The solution to the given system of equations is (x, y) . What is the value of x ?