

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

ID: e056a89f

$$\begin{aligned}x &= 5 \\ y &= x - 8\end{aligned}$$

Which of the following points (x, y) is the solution to the given system of equations in the xy -plane?

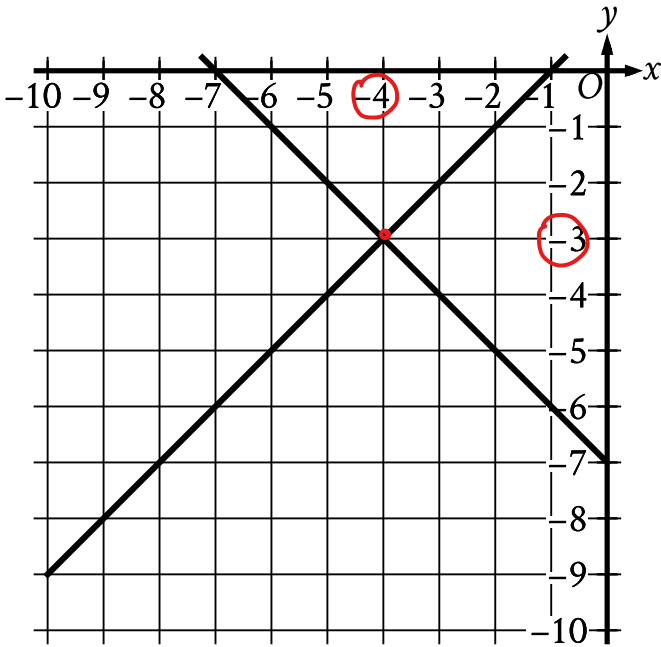
- A. ~~(8, 0)~~
- ~~B. (5, -3)~~
- C. (5, ~~-8~~)
- D. (5, ~~8~~)

$$\begin{aligned}y &= 5 - 8 \\ &= -3\end{aligned}$$

Question ID 1fd0aec2

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

ID: 1fd0aec2



The graph of a system of linear equations is shown. What is the solution (x, y) to the system?

- A. $(0, -7)$
- B. $(0, -3)$
- ~~C. $(-4, -3)$~~
- D. $(-4, 0)$

Question ID 96325aa9

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

ID: 96325aa9

$$\begin{aligned} 4x &= 20 \\ -3x + y &= -7 \end{aligned}$$

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

- A. -27
- B. -13
- ~~C. 13~~
- D. 27

Desmos $\rightarrow (5, 8)$

$$\begin{aligned} 5 + 8 &= 13 // \\ \hline x &= 5 \\ -3(5) + y &= -7 \\ y &= 8 \\ 5 + 8 &= 13 // \end{aligned}$$

Question ID 6775509d

Assessment	Test	Domain	Skill	Difficulty
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ID: 6775509d

$x + y = 18$
 $5y = x$

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

- ~~A. (15, 3)~~
- B. (16, 2)
- C. (17, 1)
- D. (18, 0)

Desmos $\rightarrow$ (15, 3) //

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Question ID 451f10be

Assessment	Test	Domain	Skill	Difficulty
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ID: 451f10be

$$\begin{aligned}x &= 10 \\ y &= x + 21\end{aligned}$$

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

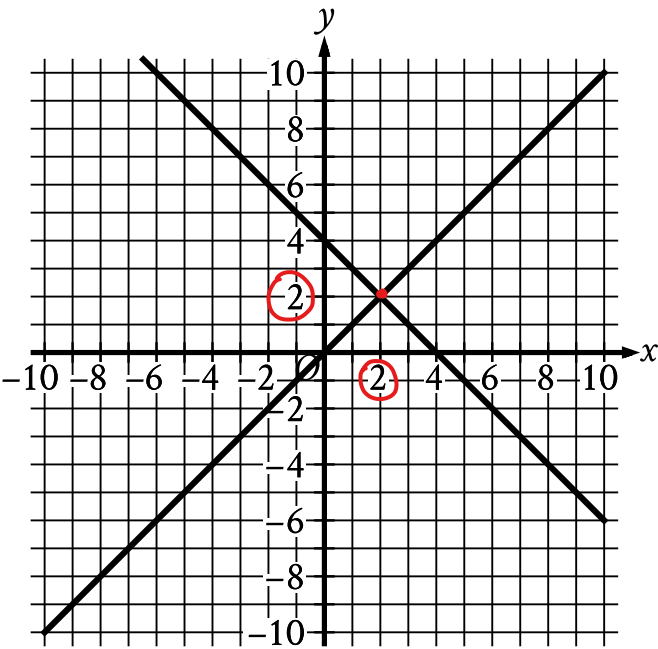
- A. 2.1
- B. 10
- C. 21
- ~~D. 31~~

$$\begin{aligned}y &= 10 + 21 \\ &= 31 //\end{aligned}$$

Question ID 6db418b9

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

ID: 6db418b9



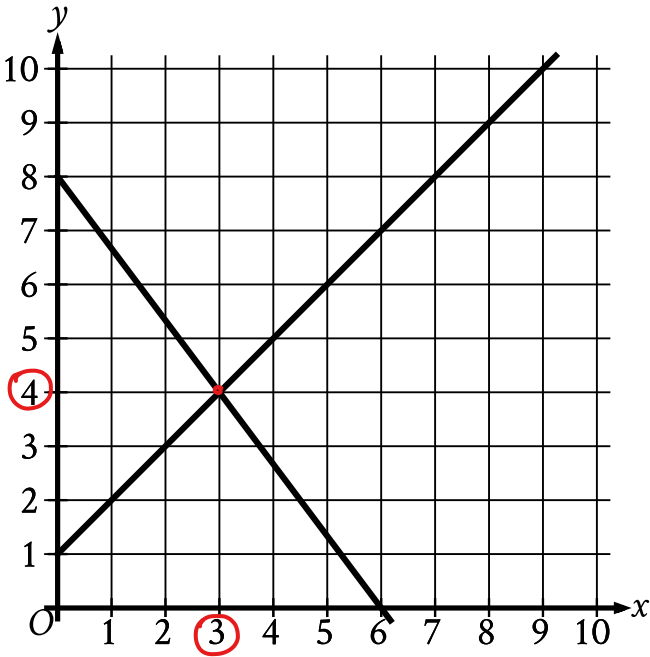
The graph of a system of two linear equations is shown. What is the solution (x, y) to the system?

- A. $(0, 4)$
- ~~B. $(2, 2)$~~
- C. $(4, 0)$
- D. $(4, 4)$

Question ID 15c9443f

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

ID: 15c9443f



The graph of a system of linear equations is shown. What is the solution (x, y) to the system?

- A. $(2, 3)$
- ~~B. $(3, 4)$~~
- C. $(4, 5)$
- D. $(5, 6)$

Question ID 5d6fef30

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

ID: 5d6fef30



$$\begin{aligned}s + 7r &= 27 \\ r &= 3\end{aligned}$$

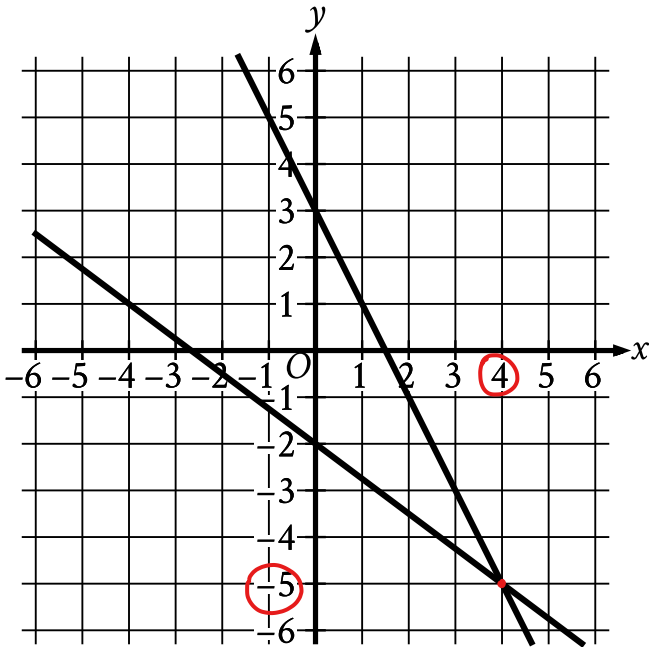
What is the solution (r, s) to the given system of equations?

- A. $(6, 3)$
- B. $(3, 6)$
- C. $(3, 27)$
- D. $(27, 3)$

Question ID 73a92771

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

ID: 73a92771



The graph of a system of linear equations is shown. What is the solution (x, y) to the system?

- ~~A. $(4, -5)$~~
- B. $(0, 3)$
- C. $(0, -2)$
- D. $(-2, 3)$

Question ID e644d732

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

ID: e644d732

$$4x - 3y = 5$$
$$x = 8$$

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

- ~~A. $(8, 9)$~~
- B. $(8, -24)$
- C. $(8, -9)$
- D. $(8, 24)$

$$4(8) - 3y = 5$$
$$y = 9$$

Question ID a28c5d5e

Assessment	Test	Domain	Skill	Difficulty
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ID: a28c5d5e

$y = 4x - 9$
 $y = 19$

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

- A. ~~(4, 19)~~
- ~~B. (7, 19)~~
- C. ~~(19, 4)~~
- D. ~~(19, 7)~~

$19 = 4x - 9$
 $x = 7$

Question ID 1605a215

Assessment	Test	Domain	Skill	Difficulty
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ID: 1605a215

$$\begin{aligned}x &= 8 \\ x + 3y &= 26\end{aligned}$$

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

$$\begin{aligned}8 + 3y &= 26 \\ y &= 6\end{aligned}$$

Question ID edf8a6ae

Assessment	Test	Domain	Skill	Difficulty
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ID: edf8a6ae

$$\begin{aligned} 5x &= 15 \\ -4x + y &= -2 \end{aligned}$$

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

- A. -17
- B. -13
- ~~C. 13~~
- D. 17

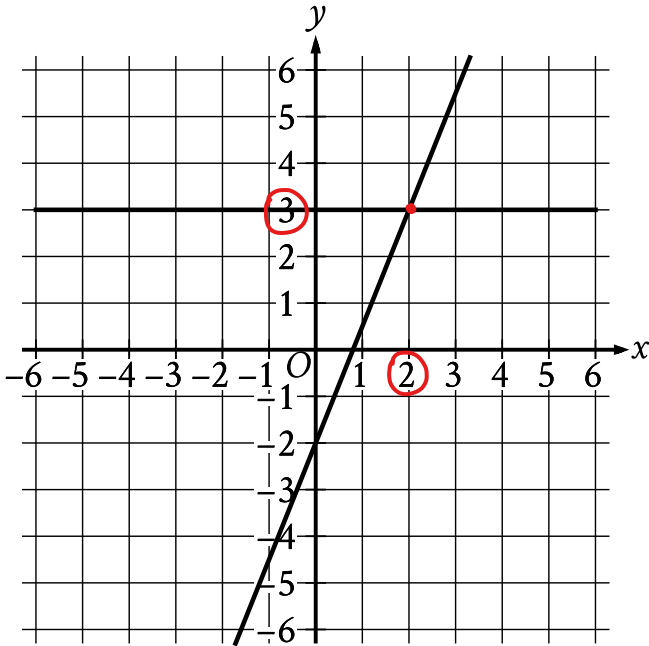
Desmos $\rightarrow (3, 10)$

$$\begin{aligned} 3 + 10 &= 13 // \\ \hline x &= 3 \\ -4(3) + y &= -2 \\ y &= 10 \\ 3 + 10 &= 13 // \end{aligned}$$

Question ID ea278c09

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

ID: ea278c09



The graph of a system of linear equations is shown. What is the solution (x, y) to the system?

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

Question ID ea07c5fa

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

ID: ea07c5fa



Connor has c dollars and Maria has m dollars. Connor has 4 times as many dollars as Maria, and together they have a total of \$25.00. Which system of equations represents this situation?

- A. $c = 4m$
 $c + m = 25$
- B. $m = 4c$
 $c + m = 25$
- C. $c = 25m$
 $c + m = 4$
- D. $m = 25c$
 $c + m = 4$

Question ID b84c49da

Assessment	Test	Domain	Skill	Difficulty
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ID: b84c49da

$y = 12x - 20$
 $y = 28$

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

~~A. (4, 28)~~

B. ~~(20, 28)~~

C. ~~(28, 4)~~

D. ~~(28, 20)~~

$28 = 12x - 20$
 $x = 4 //$

Question ID 0d1a1f0c

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

ID: 0d1a1f0c

$$\begin{aligned}x &= 4 \\ y &= 5 - x\end{aligned}$$

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

- ~~A. 1~~
- B. 4
- C. 5
- D. 9

$$\begin{aligned}y &= 5 - 4 \\ &= 1\end{aligned}$$

Question ID e9e6b891

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

ID: e9e6b891

$y = -3x$
 $4x + y = 15$

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

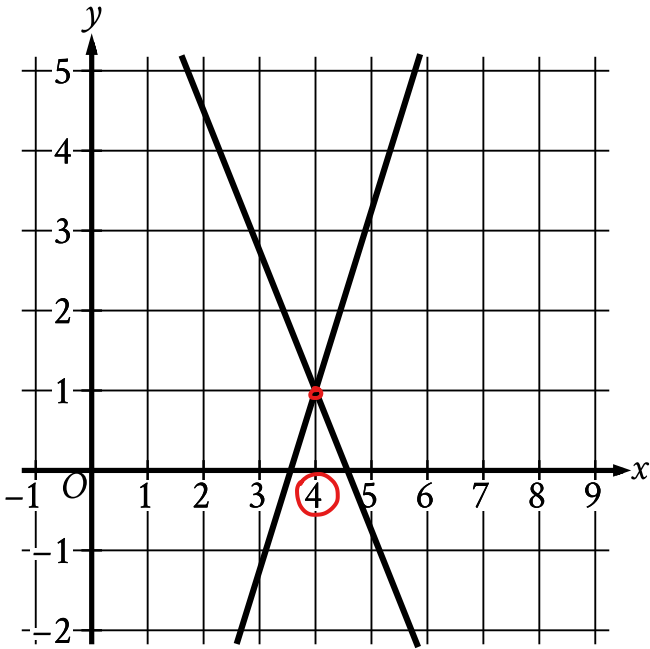
- A. 1
- B. 5
- ~~C. 15~~
- D. 45

$4x + (-3x) = 15$
 $x = 15 //$

Question ID bd1bc98b

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

ID: bd1bc98b



The graph of a system of linear equations is shown. The solution to the system is (x, y) . What is the value of x ?

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Question ID 057aa645

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

ID: 057aa645



$y = 4$
 $x = y + 6$

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

~~A. 10~~

B. 6

C. 4

D. 2

$x = 4 + 6$
 $= 10 //$

Question ID cfbc01f4

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

ID: cfbc01f4

$$3x = 12$$

$$-3x + y = -6$$

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

- A. -3
- ~~B. 6~~
- C. 18
- D. 30

Desmos $\rightarrow (4, 6)$

$x = 4$

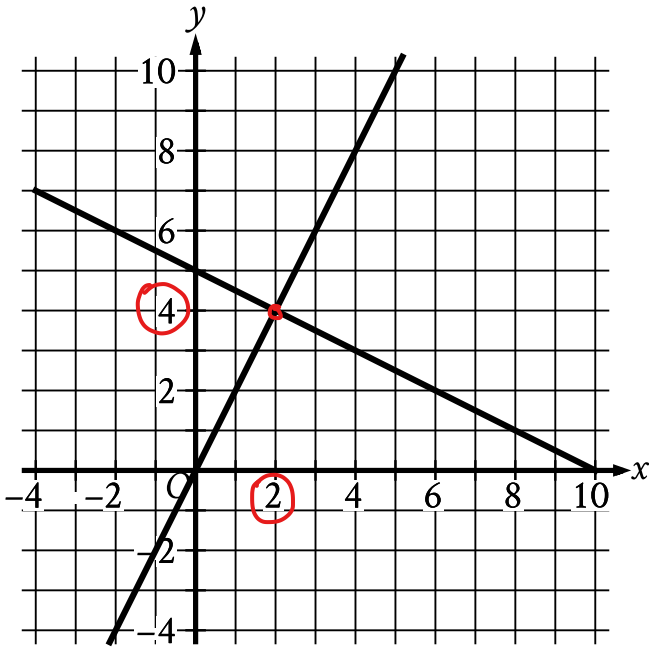
$-3(4) + y = -6$

$y = 6 //$

Question ID 773184de

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

ID: 773184de



The graph of a system of linear equations is shown. What is the solution (x, y) to the system?

- A. $(0, 5)$
- ~~B. $(2, 4)$~~
- C. $(5, 10)$
- D. $(10, 0)$