Line A is represented by the following equation:

Line A:
$$-x - y = -2$$

What is most likely the equation for line B so the set of equations has infinitely many solutions?

a.
$$-3x - 6y = -5$$

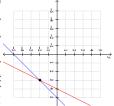
0x - 6y = -6

$$-3x - 3y = -6$$
$$0x - 3y = -5$$

ġ.

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ExamView



Based on the graph, which statement is correct about the solution to the system of equations for the blue and red lines?

- a. (3,-2) is the solution for the blue but not the red line.
 b. (3,-2) is not the solution for red line or the blue line.
 c. (3,-2) is the solution for red line and the blue line.
 d. (3,-2) is the solution for the red but not the blue line.

ExamView 3

Two lines, M and N, are represented by the following equations:

Line M:
$$x - y = -11$$

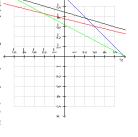
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Line N:
$$3x - y = -27$$

and explains why? Which of the following options shows the solution to the system of equations

- (-8, 3), because the point lies between the two axes
- (-8, 3), because the point does not lie on any axis (-8, 3), because both lines pass through this point
- c.
- (-8, 3), because one of the lines passes through this point

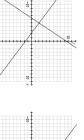
ExamView

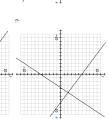


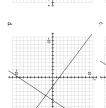
Which set of equations has (-3, 3) as its solution?

- a. Blue and red lines
- b. Black and green lines
- d. Green and blue lines Red and black lines

Which of the following graphs shows the solution (-5, 2)?







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ExamView

A set of equations is given below:

$$y = 2x - 7$$

$$y = -9x - 1$$

Which of the following steps can be used to find the solution to the set of equations?

a.
$$-9x = 2x - 7$$

b. $2x = -9x - 1$

c.
$$2x-1=-9x-$$

$$c=2x-7$$

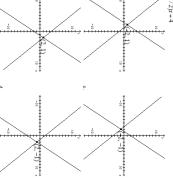
c.
$$2x-1 = -9x-7$$

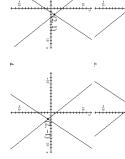
d. $-9x-1 = 2x-7$

ExamView



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ExamView

A set of equations is given below:

Equation R: y = -8x - 9

Equation S: y = -8x + 18

Which of the following options is true about the solution to the given set of equations?

- a. No solutionsb. One solution

- c. Two solutionsd. Infinitely many solutions

$$d + e = 15$$

$$-d+e=-1$$

Label the ordered pair as (d, e).

a.
$$(-8, 7)$$

b. $(8, -7)$

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ExamView

A student is trying to solve the system of two equations given below:

$$a + b = -7$$

$$2a - 8b = 46$$

Which of the following steps can be used to eliminate the a term?

a.
$$-2(a+b=-7)$$

c.
$$2(2a-8b=46)$$

d. $2(a+b=-7)$

a.
$$-2(a+b=-7)$$

b. $-2(2a-8b=46)$

1.
$$2(2a-8b=46)$$

1. $2(a+b=-7)$

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$$5x + y = +4$$

$$y = 7x + 9$$

a.
$$\left(-\frac{5}{12}, -\frac{17}{12}\right)$$

b. $\left(\frac{5}{12}, -\frac{17}{12}\right)$

c.
$$\left(-\frac{5}{12}, \frac{17}{12}\right)$$

d. $\left(\frac{5}{12}, \frac{17}{12}\right)$

ExamView

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Madison was solving a set of equations shown below:

$$\begin{cases} x + 4y = 24 \\ 3x + 3y = 27 \end{cases}$$

Step 1:
$$-3(x + 4y = 24)$$

ep 1:
$$-3(x + 4y = 24)$$

 $3x + 3y = 27$

Step 2:
$$-3x + -12y = -73$$

 $3x + 3y = 27$

$$3x + 3y = 27$$

Step 4:
$$x + 4(5) = 24$$

Step 3: -9y = -45

Step 5:
$$x = 4$$

Which of the following statements is a correct step to find x and y?

- x = y + 2x = y + 4
- Ö x=y-2x = y + 4

<u>d</u> x=y-2x = y - 4x = y - 4x = y + 2

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ExamView

amount of money (y), in dollars, in their money boxes after a certain amount of Billy and Sarah put some money into their money boxes every week. The time (x), in weeks, is shown by the equations below:

Billy:
$$y = 50x + 20$$

Sarah:
$$y = 40x + 70$$

their money boxes, and what is that amount? After how many weeks will Billy and Sarah have the same amount of money in

- 4 weeks and \$280
- 5 weeks and \$280
- c. 4 weeks and \$270d. 5 weeks and \$270



also x less than 2. The equations to find x and y are shown below. An unknown number y is 6 more than an unknown number x. The number y is

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$$y=x+6$$

$$y = -x + 2$$

Which of the following statements is a correct step to find x and y?

- Add the equations to eliminate x.
- Multiply the equations to eliminate y.
- Write the points where the graphs of the equations intersect the y-axis
- Write the points where the graphs of the equations intersect the x-axis

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A carnival ride ticket costs \$7 per adult and \$3 per child. On a certain day, the total number of adults (a) and children (c) who bought ride tickets was 39, and the number of children and the number of adults who purchased ride tickets that day, and the pair of equations that can be solved to find the numbers? the total money collected was \$229. Which of the following options represents

- 11 adults and 28 children
- a + c = 39
- 7a 3c = 229
- 11 adults and 28 children
- 7a + 3c = 229a + c = 39

- 11 children and 28 adults a + c = 39
- ġ. 11 children and 28 adults 7a - 3c = 229
- 7a + 3c = 229a + c = 39