

Topic No. 06



#1

Question 1

What is the solution to the equation below?

$$2(x - 3) = 2x + 5$$

- A $x = 2\frac{3}{4}$
- B $x = -2\frac{3}{4}$
- C There is no solution.
- D There are infinitely many solutions.

Question 2

Determine the number of solutions that exist to the equation below.

$$8(j - 4) = 2(4j - 16)$$

Show work

Answer: _____

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Question 3

What, if any, are the solutions to the equation:

$$3(0.5x - 4) = \frac{3}{2}x - 1.2?$$

Show your work.

Question 4

Solve the equation below for d .

$$0.2(d - 6) = 0.3d + 5 - 3 + 0.1d$$

Show your work.

Question 15

Solve the equation below.

$$0.4\left(2x + \frac{1}{2}\right) = 3[0.2x + (-2)] - 4$$

Show your work.

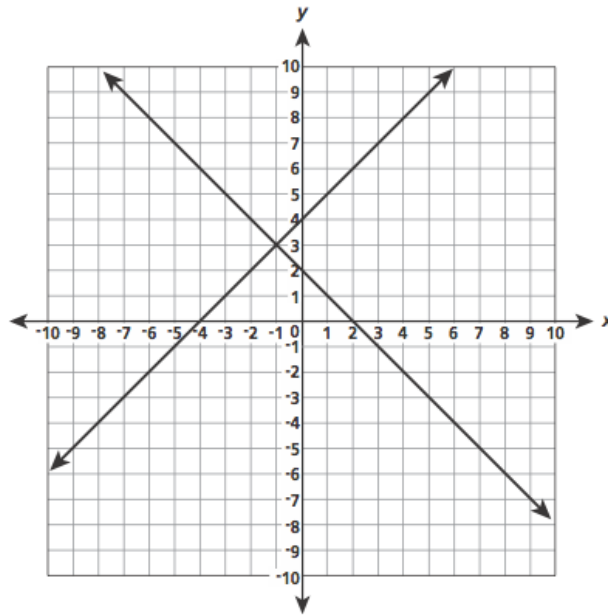
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Question 6

Lucy graphed a system of linear equations.



What is the solution to the system of equations?

- A $(-4, 2)$
- B $(-1, 3)$
- C $(0, 2)$
- D $(2, 4)$

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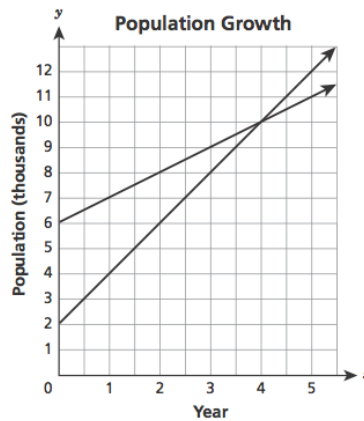


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Question 7

The population growth of two towns over a period of five years is represented by the system of equations below, both algebraically and graphically.

$$Y = x + 6$$
$$Y = 2x + 2$$



Which ordered pair is the solution to the system of equations?

- A (2, 6)
- B (4, 10)
- C (6, 2)
- D (10, 4)