

TB(2B) Ch. 7 Linear Equation in 2 Unknowns
Multiple Choice Questions

1. [13-14 St. Test 2 #3]

Solve $1 = \frac{2x+y}{7} = \frac{2y-3x}{-7}$.

- A. $x = 1, y = 5$
- B. $x = 3, y = 1$
- C. $x = 4.2, y = -1.4$
- D. $x = 21, y = -35$

2. [13-14 St. Test 2 #4]

How many solution(s) is/are there for the simultaneous equations $\begin{cases} 5x - 3 = 2y \\ 15x - 6y = 9 \end{cases}$?

- A. 1 solution.
- B. 2 solutions.
- C. No solution.
- D. Infinitely many solutions.

3. [13-14 St. Test 2 #8]

$A(-2, 9)$ and $B(2, 1)$ lie on the graph of $y = ax - b$. Find the coordinates of the point where the graph cuts the x -axis.

- A. $(0, 5)$
- B. $(0, -5)$
- C. $(2.5, 0)$
- D. $(-2.5, 0)$

4. [13-14 Final Exam #9]

The price of 6 apples and 2 oranges is \$228. If the price of 4 apples is the same as the price of 5 oranges, then the price of an orange is

- A. \$24.
- B. \$27.
- C. \$30.
- D. \$65.

5. [14-15 Mid-Year Exam #10]

Which of the following points lies on the graph of $3x + 4y + 5 = 0$?

- A. $(-1, 2)$
- B. $\left(-\frac{1}{3}, -1\right)$
- C. $\left(0, \frac{5}{4}\right)$
- D. $\left(3, \frac{7}{2}\right)$

6. [13-14 S.6 Mock Exam #17]

$$\text{Solve } \begin{cases} \frac{12}{x} + \frac{24}{y} = 2 \\ \frac{6}{x} - \frac{12}{y} = -5 \end{cases}.$$

- A. $x = 3, y = -4$
- B. $x = 3, y = 4$
- C. $x = -3, y = -4$
- D. $x = -3, y = 4$

7. [14-15 Standardized Test #1]

Solve the simultaneous equations $2x - 1 = y - 4 = x + y$.

- A. $x = -4, y = -5$
- B. $x = -2, y = -7$
- C. $x = 2, y = 7$
- D. $x = 4, y = 5$

8. [14-15 Standardized Test #7]

Which of the following statements about $L: 3x + 2y = 5$ are true?

- I. $(4, -3.5)$ lies on the graph of L .
- II. L and $3x + 2y = 7$ has one solution.
- III. Infinitely many pairs of values of x and y can satisfy L .

- A. I and II only.
- B. I and III only.
- C. II and III only.
- D. I, II and III.

9. [14-15 S.6 Mock Exam #5]

6 years ago, the age of a father was 5 times the age of his son. 1 year from now, the age of the father will be 3 times the age of his son. The present age of the father is

- A. 41.
- B. 43.
- C. 45.
- D. 47.

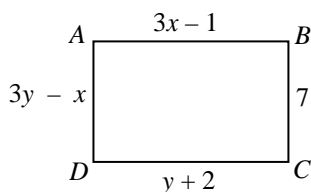
10. [14-15 Final Exam #9]

Solve $\begin{cases} 3x + 6y = 7 \\ x - y = 2 \end{cases}$.

- A. $x = 1, y = \frac{2}{3}$
- B. $x = 2, y = 1$
- C. $x = \frac{19}{9}, y = \frac{1}{9}$
- D. $x = -\frac{19}{9}, y = \frac{1}{9}$

11. [15-16 Final Exam #10]

The figure shows a rectangle $ABCD$. Find DC .



- A. 2
- B. 3
- C. 5
- D. 7

12. [15-16 Standardized Test #1]

How many solution(s) is/are there for the simultaneous equations $\begin{cases} x - 2y = 3 \\ \frac{7x}{4} - \frac{21}{4} = \frac{7y}{2} \end{cases}$?

- A. No solution
- B. 1 solution
- C. 2 solutions
- D. Infinitely many solutions

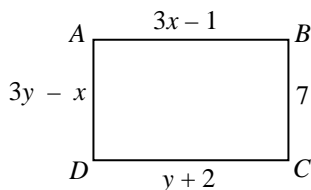
13. [15-16 Standardized Test #7]

If $P(3, 9)$, $Q(c, 11)$ and $R(1, 5)$ lie on the graph of $y = ax + b$, find the value of c .

- A. 1
- B. 2
- C. 4
- D. 7

14. [15-16 Final Exam #10]

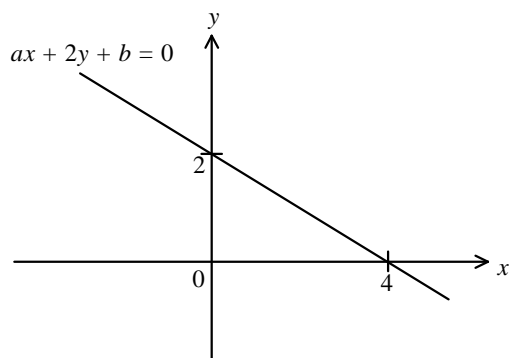
The figure shows a rectangle $ABCD$. Find DC .



- A. 2
- B. 3
- C. 5
- D. 7

15. [16-17 Standardized Test #9]

The figure shows the graph of the equation $ax + 2y + b = 0$. Find the values of a and b .



- A. $a = 1, b = -4$
- B. $a = 1, b = 2$
- C. $a = 2, b = 4$
- D. $a = 4, b = 2$

16. [16-17 Final Exam #9]

The age of Ashley is twice that of Billy now. Three years later, the sum of their ages will be 24.

What is Ashley's age now?

- A. 6
- B. 9
- C. 12
- D. 15

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