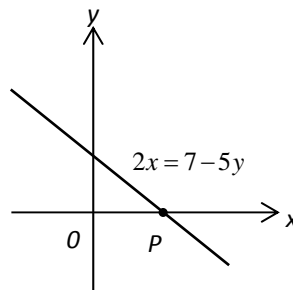


TB(2B) Ch. 7 Linear Equation in 2 Unknowns Multiple Choice Questions

1. [11-12 Mid-year Exam -9]

In the figure, the line $2x = 7 - 5y$ intersects the x -axis at P . Find the coordinates of point P .



- A. $(0, 1.4)$ B. $(0, 3.5)$
C. $(1.4, 0)$ D. $(3.5, 0)$

2. [11-12 STest2]

How many solution(s) is/are there for the simultaneous equations $\begin{cases} x - 2y = 3 \\ 2x - 4y = 9 \end{cases}$?

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

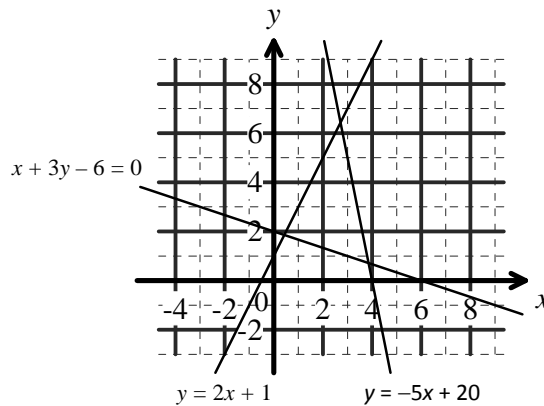
3. [11-12 STest2]

If the graphs of $3x - Ay = 2B$ and $Bx - 2y = A$ intersect at $(1, -1)$, find the values of A and B .

- A. $A = -1, B = 1$
B. $A = 7, B = 5$
C. $A = \frac{7}{3}, B = \frac{1}{3}$
D. $A = -\frac{1}{3}, B = -\frac{5}{3}$

4. [11-12 Final Exam #7]

By using the graphical method, the solution to the simultaneous linear equations $\begin{cases} x + 3y - 6 = 0 \\ y = -5x + 20 \end{cases}$ is



- A. (4, 1).
- B. (0, 2).
- C. (3, 6).
- D. (3.8, 0.7).

5. [11-12 Final Exam #8]

For the solution to the simultaneous linear equations $\begin{cases} 2x + 3y = -7 \\ x - y = 4 \end{cases}$, which of the following is correct?

- A. $x = 1$
- B. $x = -3$
- C. There is no solution.
- D. There are an infinite number of solutions.

6. [12-13 S. Test 2, 4]

The prices of an orange and an apple are \$4 and \$6 respectively. A sum of \$80 is spent on buying some oranges and apples. If the total number of oranges and apples bought is 15, find the number of oranges.

- A. 5
- B. 9
- C. 10
- D. 15

7. [12-13 S. Test 2, 6]

How many solution(s) is/ are there for the following simultaneous equations?

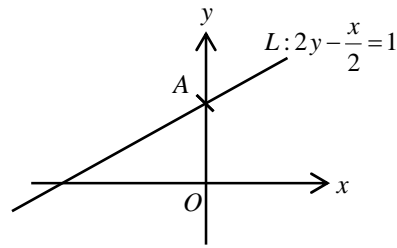
$$\begin{cases} 7(x - 1) + 10(y + 1) = -2 \\ 4(y + 1) - 3(x - 1) = 5 \end{cases}$$

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

8. [12-13 Final Exam #7]

In the figure, straight line L cuts the y -axis at A . Find the coordinates of A .

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



9. [12-13 Final Exam #15]

How many solution(s) is/ are there for the following simultaneous equations?

$$\begin{cases} 2x + 3y = 5 \\ 4x + 6y = 10 \end{cases}$$

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

10. [12-13 Mid-year Exam #8]

Which of the following ordered pairs satisfies the equation $4y - 3x = 7$?

- A. $(1, -1)$
- B. $(5, 2)$
- C. $\left(\frac{17}{3}, \frac{10}{4}\right)$
- D. $\left(\frac{10}{3}, \frac{17}{4}\right)$

11. [12-13 Mid-year Exam #18]

If $P(4, 2)$ and $Q(0, 6)$ both lie on the graph of $y = ax + b$, find the value of a .

- A. -1
- B. -2
- C. 2
- D. 3

12. [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. $x = 21, y = -35$

13. [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.

14. [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. $(-2.5, 0)$

15. [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.

16. [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. $\left(3, \frac{7}{2}\right)$

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

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. $x = -3, y = 4$

18. [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. $x = 4, y = 5$

19. [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.

20. [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.

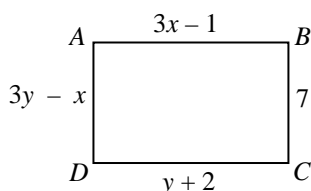
21. [14-15 Final Exam #9]

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. $x = -\frac{19}{9}, y = \frac{1}{9}$

22. [15-16 Final Exam #10]

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



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

23. [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

24. [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

~ End ~