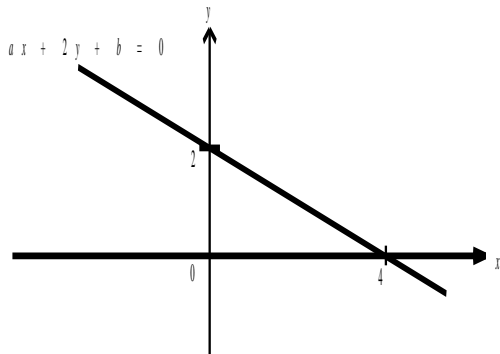


TB(2B) Ch. 8 Linear Equations in Two Unknowns
Multiple Choice Questions

1. [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. $a = 4, b = 2$

2. [16-17 Final Exam #9]

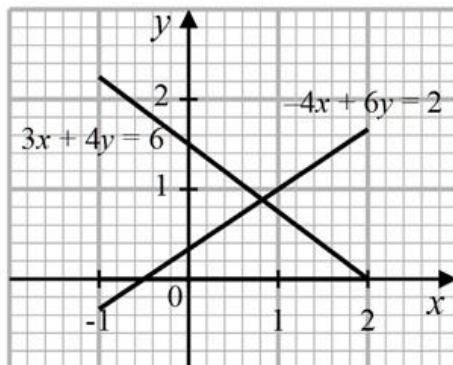
The age of Ashley is twice that of Billy now. Three years later, the sum of their ages will be 24.

What is Ashley's age now?

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

3. [18-19 S Test 2 #2]

The simultaneous equations $\begin{cases} 3x + 4y = 6 \\ -4x + 6y = 2 \end{cases}$ are solved graphically as shown below.



Which of the following best describes the solution from the graph?

- A. The approximate solution is (0.8, 0.8)
- B. The approximate solution is (0, 0.33)
- C. The exact solution is (0.8, 0.8)
- D. The exact solution is (0, 0.33)

4. [18-19 S Test 2 #9]

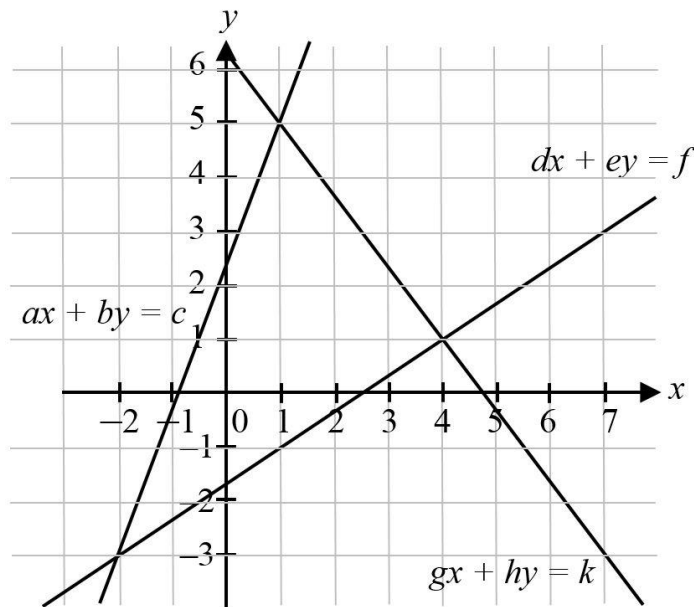
Solve $\begin{cases} \frac{1}{x} + \frac{1}{y} = 2 \\ \frac{-0.2}{x} + \frac{0.5}{y} = 0.3 \end{cases}$.

- A. $x = -0.2, y = 1$
- B. $x = 0, y = 0$
- C. $x = 1, y = 0.2$
- D. $x = 1, y = 1$

5. [20-21 Standardized Test #1]

The figure shows the graphs of the equations $ax + by = c$, $dx + ey = f$ and $gx + hy = k$.

Solve $\begin{cases} ax + by = c \\ gx + hy = k \end{cases}$ graphically.



- A. $x = -2, y = -3$
- B. $x = 1, y = 5$
- C. $x = 4, y = 1$
- D. $x = 7, y = -3$

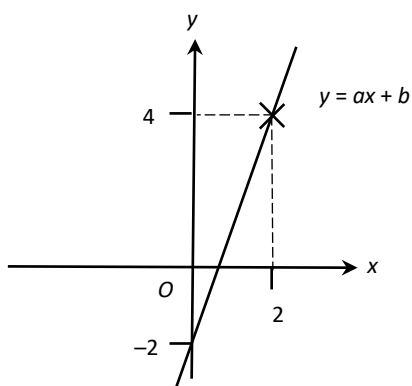
6. [20-21 Final Exam#8]

If $2x - 9y = 5 = -2x - y$, then $y =$

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

7. [20-21 Final Exam#20]

In the figure, find a and b .



- A. $a = 0, b = -2$
- B. $a = \frac{1}{3}, b = \frac{2}{3}$
- C. $a = 2, b = 4$
- D. $a = 3, b = -2$

~ End ~