

Math 05 Practice

lines

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Prepared by Y. Hu

Version 1

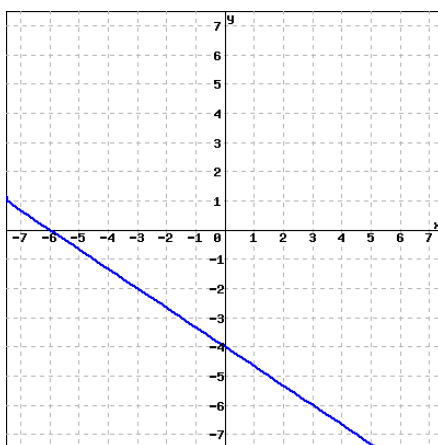
Problem 1.

Find the equation of the vertical line passing through the point $(7, 13)$.

- A. $y = 13$
- B. $x = 7$
- C. $y = x + 13$
- D. $y = \frac{13}{7}x + 13$

Problem 2.

What is the slope of the line graphed below?



- A. $(2/3)$
- B. $(-3/2)$
- C. $(3/2)$
- D. $(-2/3)$

Problem 3.

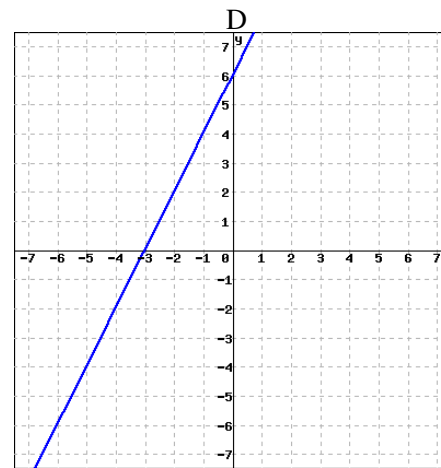
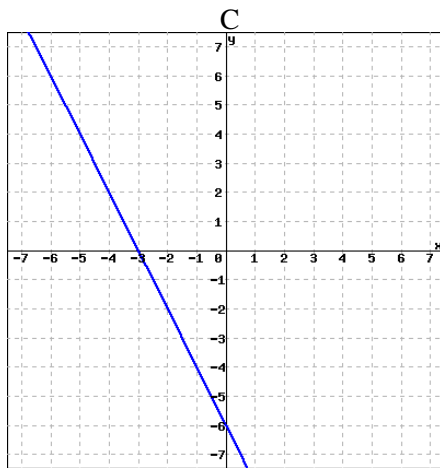
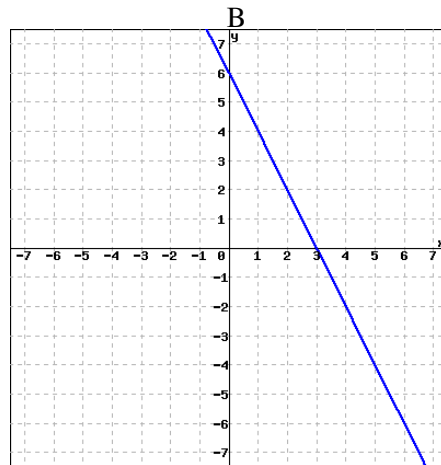
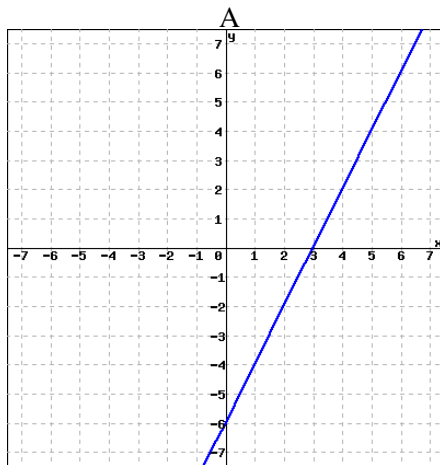
Find the slope and y-intercept for the graph of the equation.

$$-7x - 6y = -36$$

- A. Slope = $\frac{7}{6}$ and y-intercept = $(0, 6)$
- B. Slope = $\frac{6}{7}$ and y-intercept = $(0, -36)$
- C. Slope = $-\frac{7}{6}$ and y-intercept = $(0, 6)$
- D. Slope = $-\frac{6}{7}$ and y-intercept = $(0, -36)$

Problem 4.

Which of the following is the graph of the equation $-6x + 3y = -18$?



Problem 5.

Find the equation of the line passing through the points $(-5, 9)$ and $(3, -15)$. Write the equation in slope-intercept form.

- A. $y = 3x + 24$
- B. $y = 3x - 24$
- C. $y = -3x + 9$
- D. $y = -3x - 6$

Version 2

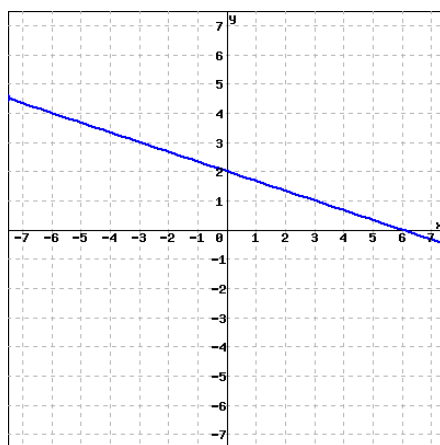
Problem 1.

Find the equation of the vertical line passing through the point $(-8, 11)$.

- A. $y = 11$
 - B. $y = x + 11$
 - C. $x = -8$
 - D. $y = -\frac{11}{8}x + 11$
-

Problem 2.

What is the slope of the line graphed below?



- A. (-3)
 - B. $(-1/3)$
 - C. 3
 - D. $(1/3)$
-

Problem 3.

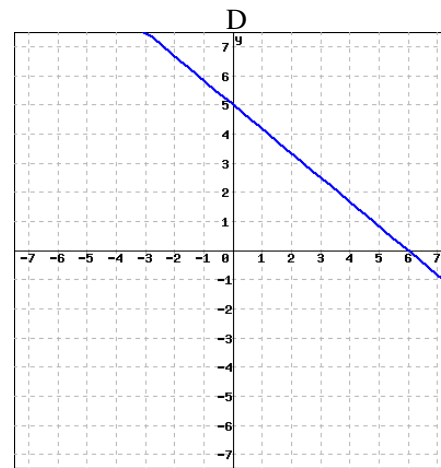
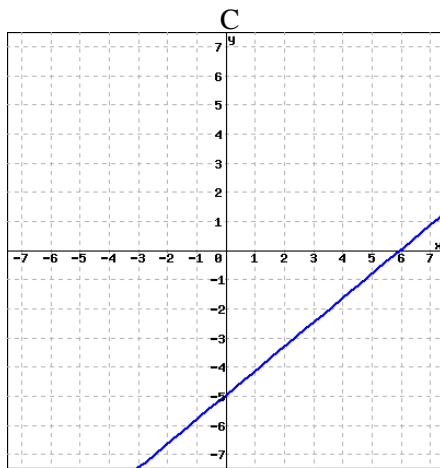
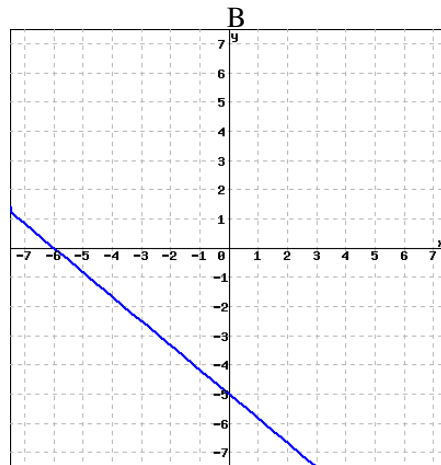
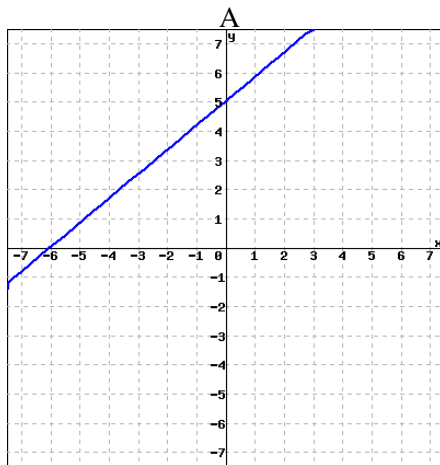
Find the slope and y-intercept for the graph of the equation.

$$-5x - 8y = -32$$

- A. Slope = $\frac{8}{5}$ and y-intercept = $(0, -32)$
- B. Slope = $\frac{5}{8}$ and y-intercept = $(0, 4)$
- C. Slope = $-\frac{5}{8}$ and y-intercept = $(0, 4)$
- D. Slope = $-\frac{8}{5}$ and y-intercept = $(0, -32)$

Problem 4.

Which of the following is the graph of the equation $-10x + 12y = 60$?



Problem 5.

Find the equation of the line passing through the points $(-5, -14)$ and $(3, 2)$. Write the equation in slope-intercept form.

- A. $y = -2x - 24$
- B. $y = 2x - 14$
- C. $y = -2x + 8$
- D. $y = 2x - 4$

Version 3

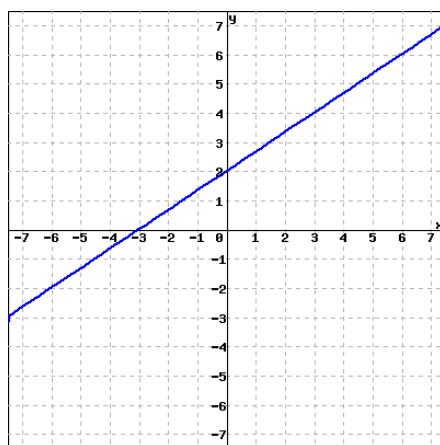
Problem 1.

Find the equation of the horizontal line passing through the point $(10, 4)$.

- A. $y = \frac{2}{5}x + 4$
 - B. $y = 4$
 - C. $x = 10$
 - D. $y = x + 4$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(3/2)$
 - B. $(-2/3)$
 - C. $(2/3)$
 - D. $(-3/2)$
-

Problem 3.

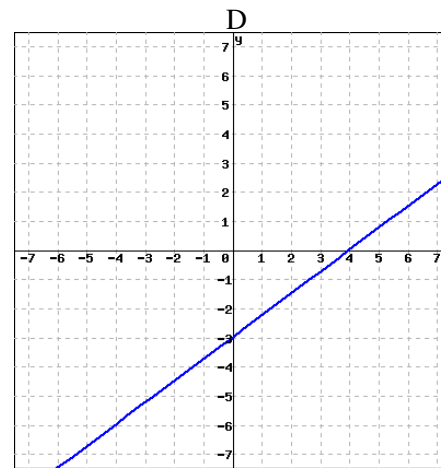
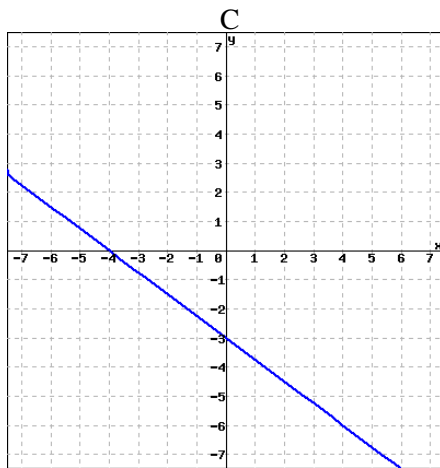
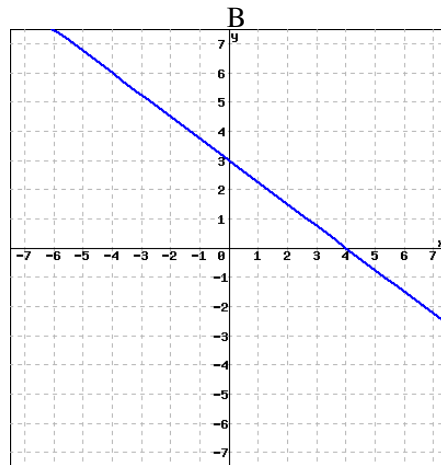
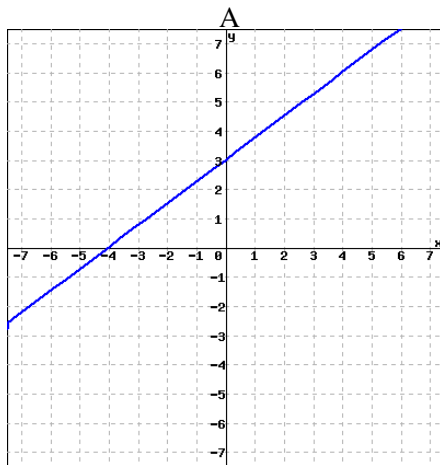
Find the slope and y-intercept for the graph of the equation.

$$-5x + 4y = 20$$

- A. Slope = $-\frac{5}{4}$ and y-intercept = $(0, 5)$
- B. Slope = $\frac{4}{5}$ and y-intercept = $(0, 20)$
- C. Slope = $\frac{5}{4}$ and y-intercept = $(0, 5)$
- D. Slope = $-\frac{4}{5}$ and y-intercept = $(0, 20)$

Problem 4.

Which of the following is the graph of the equation $6x - 8y = -24$?



Problem 5.

Find the equation of the line passing through the points $(-2, -9)$ and $(3, 11)$. Write the equation in slope-intercept form.

- A. $y = -4x + 23$
- B. $y = -4x - 17$
- C. $y = 4x - 1$
- D. $y = 4x - 9$

Version 4

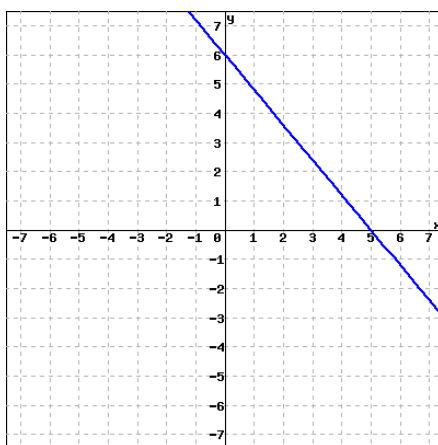
Problem 1.

Find the equation of the horizontal line passing through the point $(-10, -1)$.

- A. $y = \frac{1}{10}x - 1$
 - B. $y = -1$
 - C. $y = x - 1$
 - D. $x = -10$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(6/5)$
 - B. $(-5/6)$
 - C. $(5/6)$
 - D. $(-6/5)$
-

Problem 3.

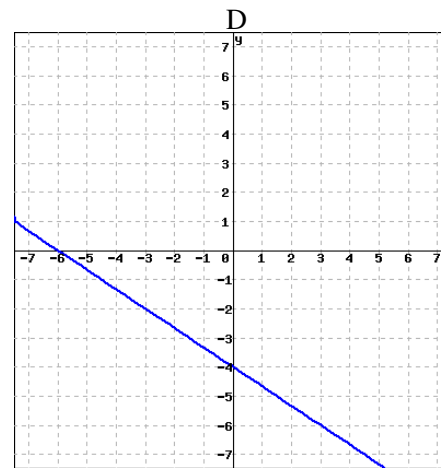
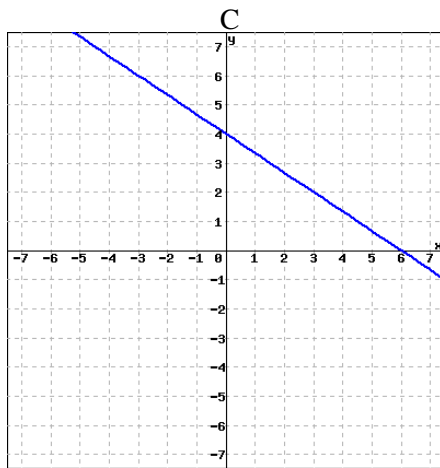
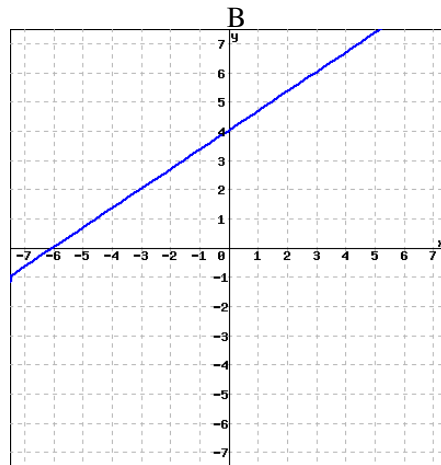
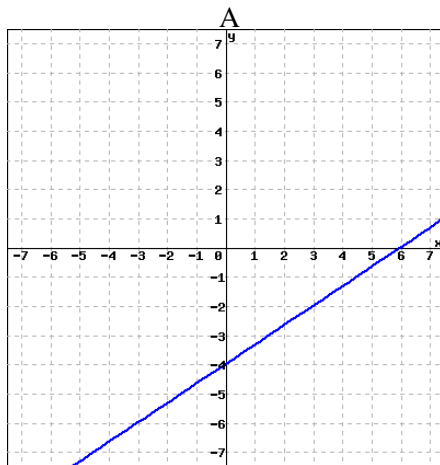
Find the slope and y-intercept for the graph of the equation.

$$-10x + 4y = 24$$

- A. Slope = $\frac{5}{2}$ and y-intercept = $(0, 6)$
- B. Slope = $\frac{2}{5}$ and y-intercept = $(0, 24)$
- C. Slope = $-\frac{5}{2}$ and y-intercept = $(0, 6)$
- D. Slope = $-\frac{2}{5}$ and y-intercept = $(0, 24)$

Problem 4.

Which of the following is the graph of the equation $6x - 9y = -36$?



Problem 5.

Find the equation of the line passing through the points $(-3, 5)$ and $(6, -31)$. Write the equation in slope-intercept form.

- A. $y = -4x + 5$
- B. $y = -4x - 7$
- C. $y = 4x - 55$
- D. $y = 4x + 17$

Version 5

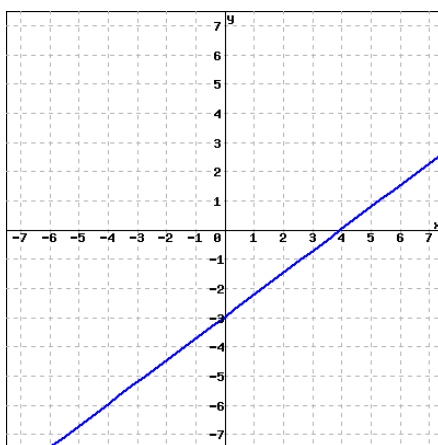
Problem 1.

Find the equation of the horizontal line passing through the point $(8, 14)$.

- A. $y = 14$
 - B. $y = x + 14$
 - C. $x = 8$
 - D. $y = \frac{7}{4}x + 14$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(3/4)$
 - B. $(-4/3)$
 - C. $(-3/4)$
 - D. $(4/3)$
-

Problem 3.

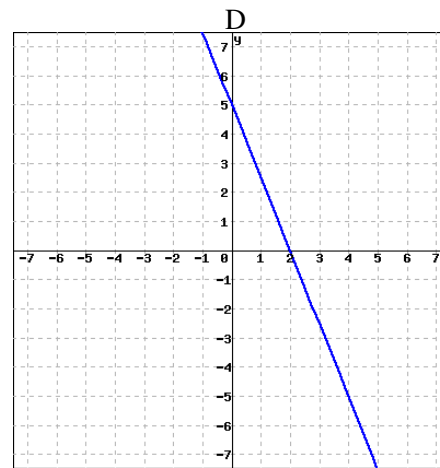
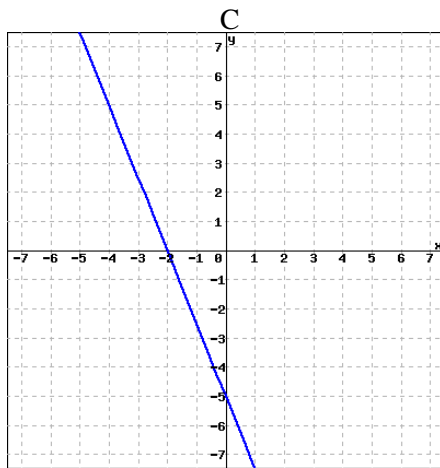
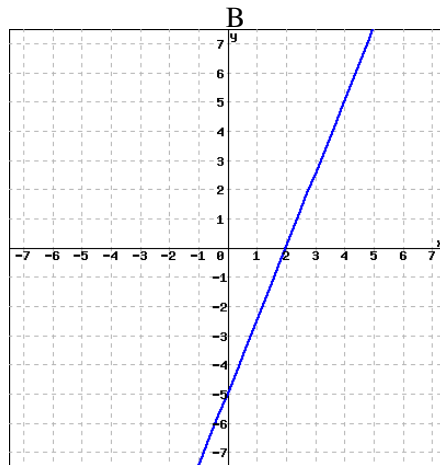
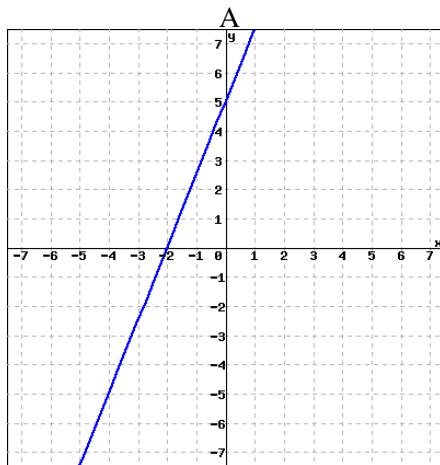
Find the slope and y-intercept for the graph of the equation.

$$-5x + 9y = 45$$

- A. Slope = $-\frac{5}{9}$ and y-intercept = $(0, 5)$
- B. Slope = $\frac{5}{9}$ and y-intercept = $(0, 5)$
- C. Slope = $-\frac{9}{5}$ and y-intercept = $(0, 45)$
- D. Slope = $\frac{9}{5}$ and y-intercept = $(0, 45)$

Problem 4.

Which of the following is the graph of the equation $10x - 4y = -20$?



Problem 5.

Find the equation of the line passing through the points $(-1, 2)$ and $(2, 14)$. Write the equation in slope-intercept form.

- A. $y = 4x + 2$
- B. $y = -4x + 22$
- C. $y = 4x + 6$
- D. $y = -4x - 2$

Version 6

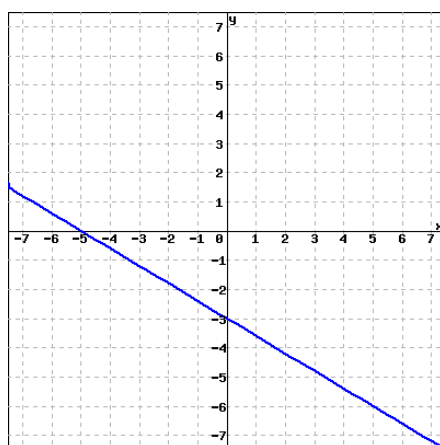
Problem 1.

Find the equation of the vertical line passing through the point $(-5, -2)$.

- A. $y = \frac{2}{5}x - 2$
 - B. $y = -2$
 - C. $y = x - 2$
 - D. $x = -5$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(5/3)$
 - B. $(3/5)$
 - C. $(-5/3)$
 - D. $(-3/5)$
-

Problem 3.

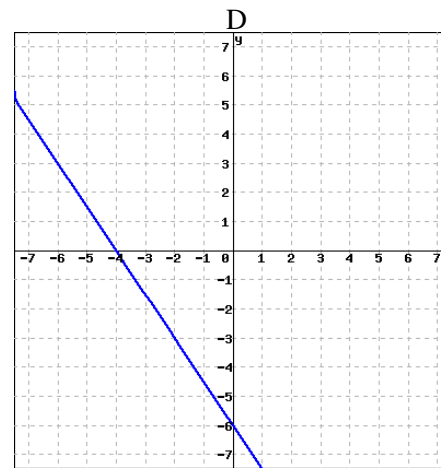
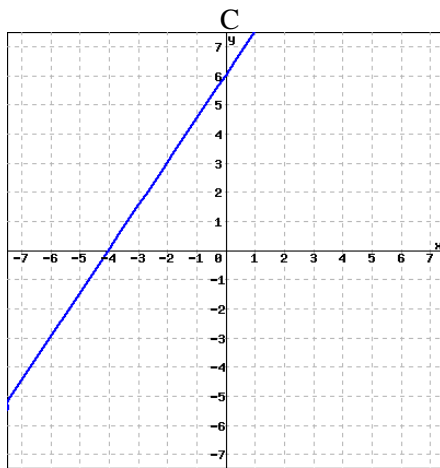
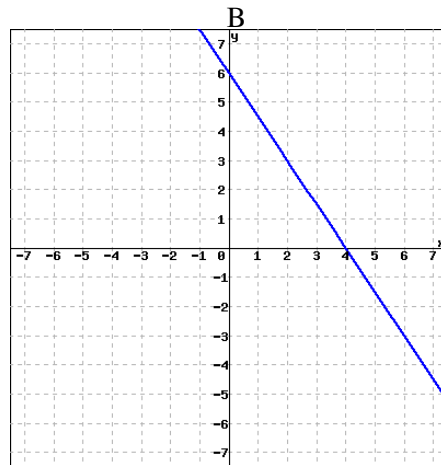
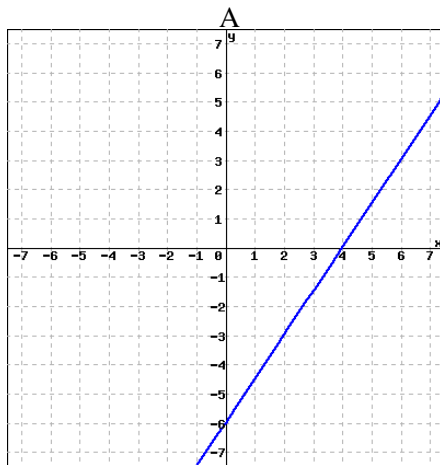
Find the slope and y-intercept for the graph of the equation.

$$4x - 11y = -33$$

- A. Slope = $-\frac{11}{4}$ and y-intercept = $(0, -33)$
- B. Slope = $\frac{4}{11}$ and y-intercept = $(0, 3)$
- C. Slope = $\frac{11}{4}$ and y-intercept = $(0, -33)$
- D. Slope = $-\frac{4}{11}$ and y-intercept = $(0, 3)$

Problem 4.

Which of the following is the graph of the equation $9x - 6y = -36$?



Problem 5.

Find the equation of the line passing through the points $(-7, 15)$ and $(6, -11)$. Write the equation in slope-intercept form.

- A. $y = -2x + 15$
- B. $y = 2x + 29$
- C. $y = 2x - 23$
- D. $y = -2x + 1$

Version 7

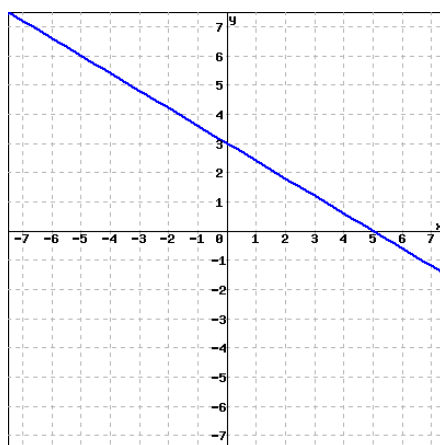
Problem 1.

Find the equation of the horizontal line passing through the point $(2, -3)$.

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

Problem 2.

What is the slope of the line graphed below?



- A. $(-5/3)$
 - B. $(-3/5)$
 - C. $(3/5)$
 - D. $(5/3)$
-

Problem 3.

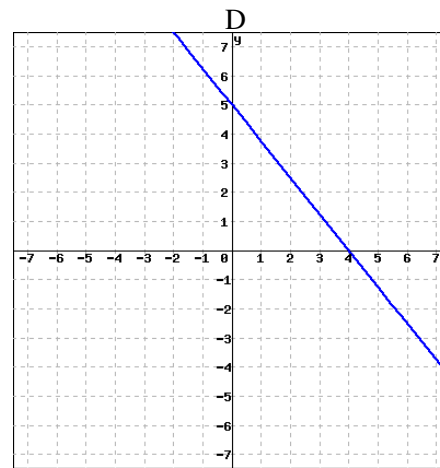
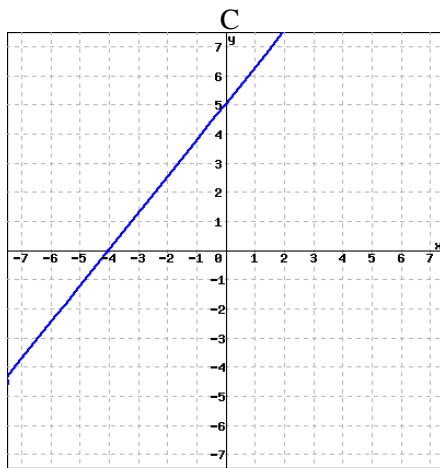
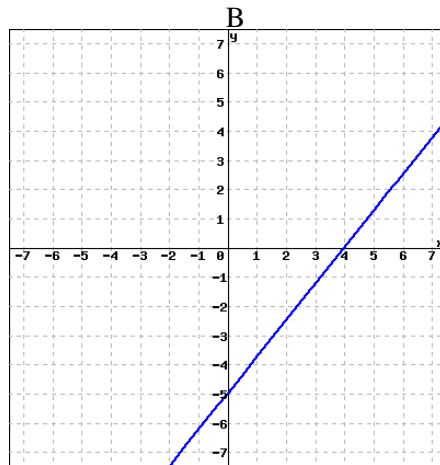
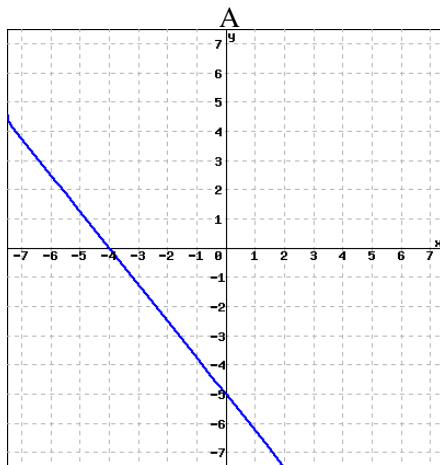
Find the slope and y-intercept for the graph of the equation.

$$-4x + 6y = 18$$

- A. Slope = $-\frac{3}{2}$ and y-intercept = $(0, 18)$
- B. Slope = $\frac{2}{3}$ and y-intercept = $(0, 3)$
- C. Slope = $\frac{3}{2}$ and y-intercept = $(0, 18)$
- D. Slope = $-\frac{2}{3}$ and y-intercept = $(0, 3)$

Problem 4.

Which of the following is the graph of the equation $-15x + 12y = -60$?



Problem 5.

Find the equation of the line passing through the points $(-2, -4)$ and $(3, 16)$. Write the equation in slope-intercept form.

- A. $y = -4x + 28$
- B. $y = 4x + 4$
- C. $y = -4x - 12$
- D. $y = 4x - 4$

Version 8

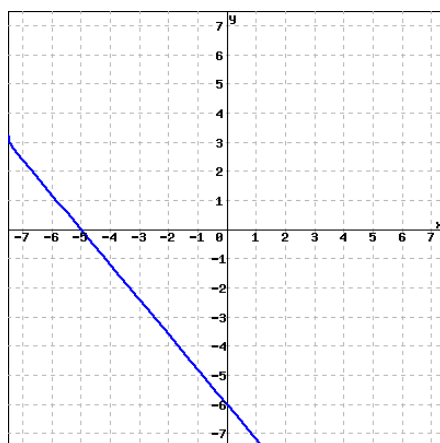
Problem 1.

Find the equation of the horizontal line passing through the point $(7, 15)$.

- A. $y = 15$
 - B. $y = \frac{15}{7}x + 15$
 - C. $y = x + 15$
 - D. $x = 7$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(-6/5)$
 - B. $(-5/6)$
 - C. $(5/6)$
 - D. $(6/5)$
-

Problem 3.

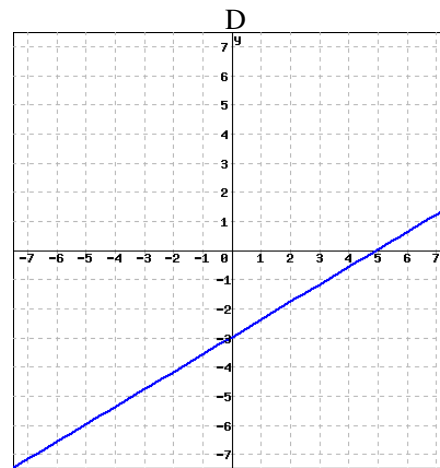
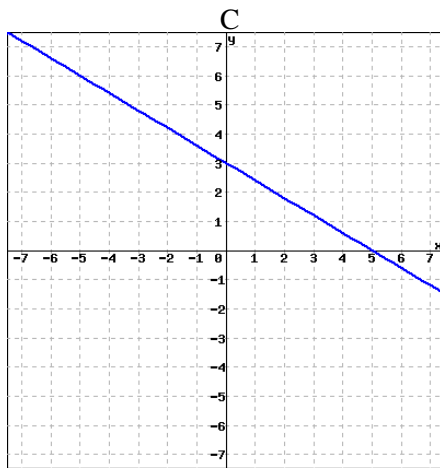
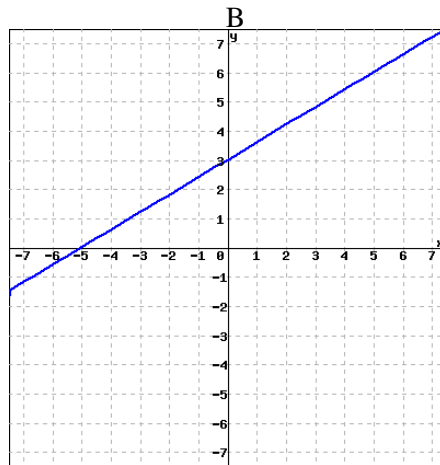
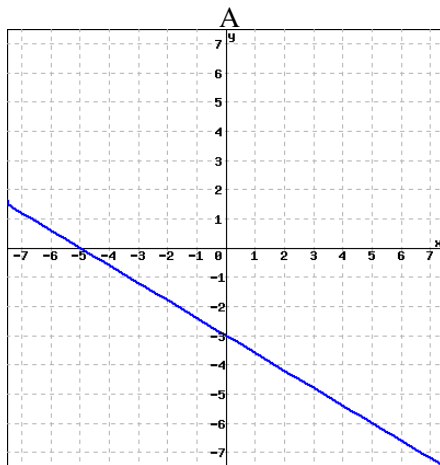
Find the slope and y-intercept for the graph of the equation.

$$8x - 9y = -54$$

- A. Slope = $-\frac{9}{8}$ and y-intercept = $(0, -54)$
- B. Slope = $\frac{8}{9}$ and y-intercept = $(0, 6)$
- C. Slope = $\frac{9}{8}$ and y-intercept = $(0, -54)$
- D. Slope = $-\frac{8}{9}$ and y-intercept = $(0, 6)$

Problem 4.

Which of the following is the graph of the equation $-9x + 15y = 45$?



Problem 5.

Find the equation of the line passing through the points $(-2, -11)$ and $(5, 17)$. Write the equation in slope-intercept form.

- A. $y = -4x + 37$
- B. $y = 4x - 3$
- C. $y = 4x - 11$
- D. $y = -4x - 19$

Version 9

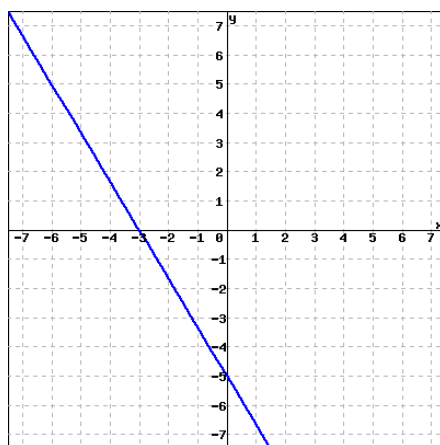
Problem 1.

Find the equation of the vertical line passing through the point $(-9, 15)$.

- A. $y = -\frac{5}{3}x + 15$
 - B. $y = x + 15$
 - C. $x = -9$
 - D. $y = 15$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(-3/5)$
 - B. $(3/5)$
 - C. $(5/3)$
 - D. $(-5/3)$
-

Problem 3.

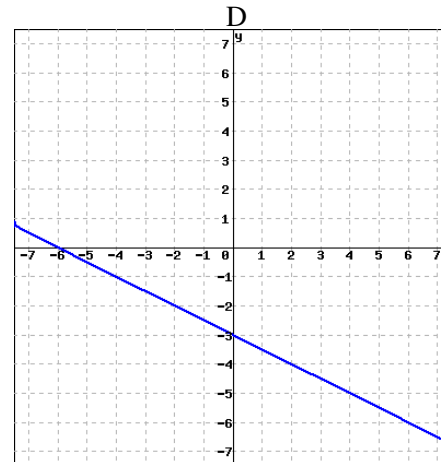
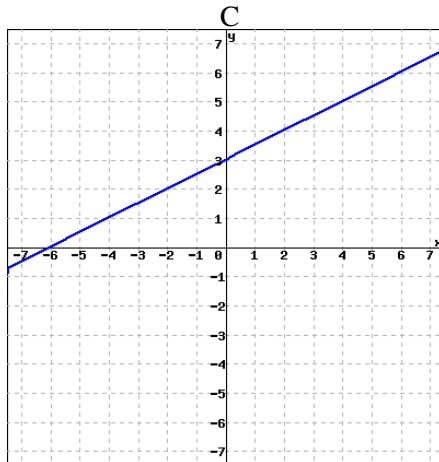
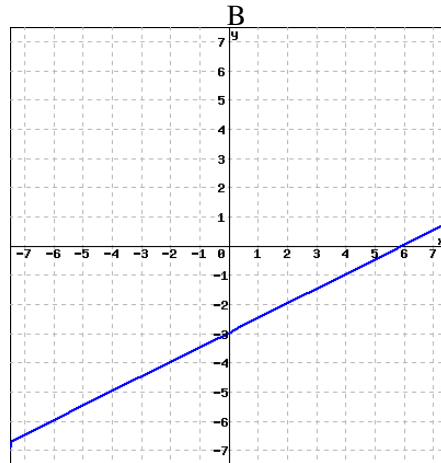
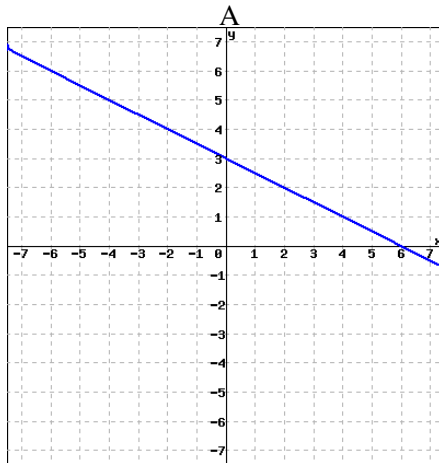
Find the slope and y-intercept for the graph of the equation.

$$-2x + 5y = 10$$

- A. Slope = $-\frac{5}{2}$ and y-intercept = $(0, 10)$
- B. Slope = $\frac{5}{2}$ and y-intercept = $(0, 10)$
- C. Slope = $\frac{2}{5}$ and y-intercept = $(0, 2)$
- D. Slope = $-\frac{2}{5}$ and y-intercept = $(0, 2)$

Problem 4.

Which of the following is the graph of the equation $-2x + 4y = -12$?



Problem 5.

Find the equation of the line passing through the points $(-5, 26)$ and $(3, -6)$. Write the equation in slope-intercept form.

- A. $y = 4x + 46$
- B. $y = -4x + 6$
- C. $y = 4x - 18$
- D. $y = -4x + 26$

Version 10

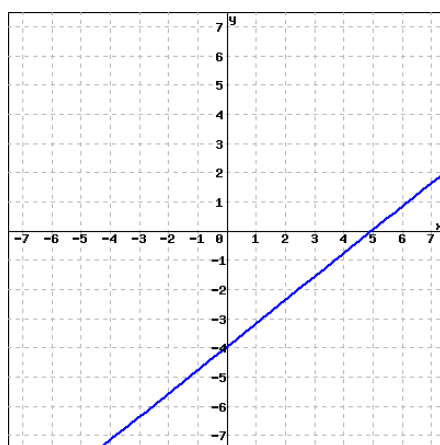
Problem 1.

Find the equation of the horizontal line passing through the point $(3, 7)$.

- A. $y = 7$
 - B. $y = x + 7$
 - C. $y = \frac{7}{3}x + 7$
 - D. $x = 3$
-

Problem 2.

What is the slope of the line graphed below?



- A. $(5/4)$
 - B. $(4/5)$
 - C. $(-5/4)$
 - D. $(-4/5)$
-

Problem 3.

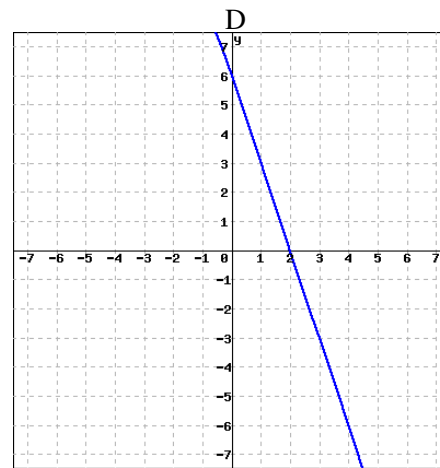
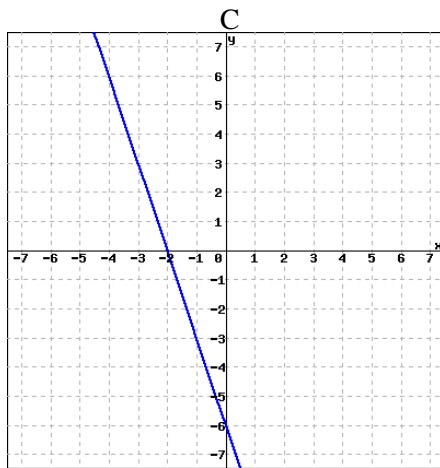
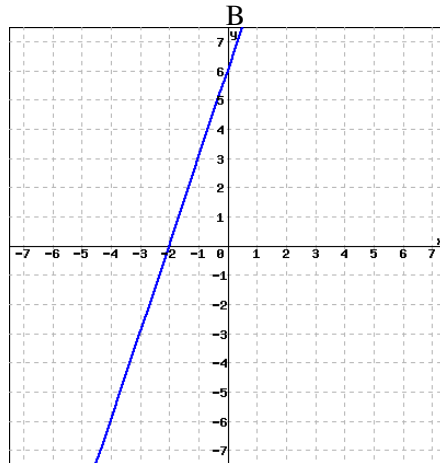
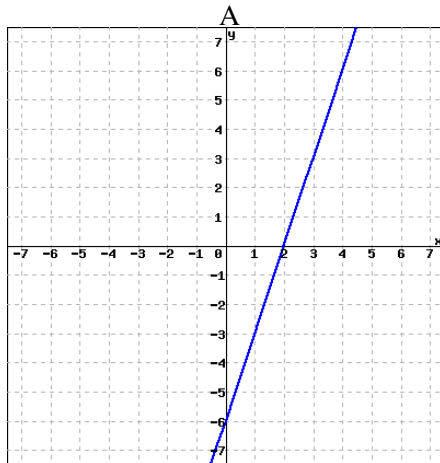
Find the slope and y-intercept for the graph of the equation.

$$6x - 10y = -60$$

- A. Slope = $\frac{5}{3}$ and y-intercept = $(0, -60)$
- B. Slope = $-\frac{3}{5}$ and y-intercept = $(0, 6)$
- C. Slope = $-\frac{5}{3}$ and y-intercept = $(0, -60)$
- D. Slope = $\frac{3}{5}$ and y-intercept = $(0, 6)$

Problem 4.

Which of the following is the graph of the equation $6x - 2y = 12$?



Problem 5.

Find the equation of the line passing through the points $(-1, -4)$ and $(4, 6)$. Write the equation in slope-intercept form.

- A. $y = -2x + 14$
- B. $y = -2x - 6$
- C. $y = 2x - 4$
- D. $y = 2x - 2$

Answers.

Version 1.

1.B 2.D 3.C 4.A 5.D

Version 2.

1.C 2.B 3.C 4.A 5.D

Version 3.

1.B 2.C 3.C 4.A 5.C

Version 4.

1.B 2.D 3.A 4.B 5.B

Version 5.

1.A 2.A 3.B 4.A 5.C

Version 6.

1.D 2.D 3.B 4.C 5.D

Version 7.

1.A 2.B 3.B 4.B 5.B

Version 8.

1.A 2.A 3.B 4.B 5.B

Version 9.

1.C 2.D 3.C 4.B 5.B

Version 10.

1.A 2.B 3.D 4.A 5.D