

3.4, 3.5

Identify the slope and y-intercept of the line with the given equation.

1) $y = 5x + 8$

A) Slope -5, y-intercept (0, 8)

C) Slope 5, y-intercept (0, 8)

B) Slope 8, y-intercept (0, -5)

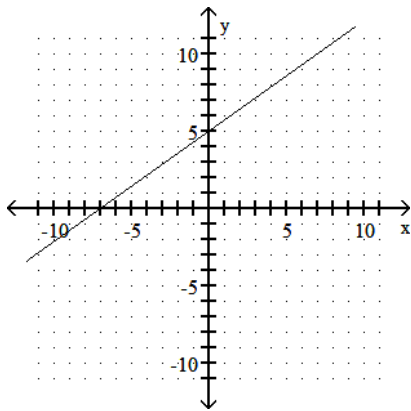
D) Slope 8, y-intercept (0, 5)

1) _____

Use the geometric interpretation of slope (rise divided by run) to find the slope of the line. Then, by identifying the y-intercept from the graph, write the slope-intercept form of the equation of the line.

2)

2) _____



A) $y = 7x + 5$

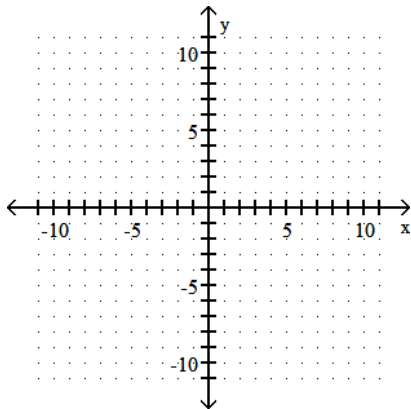
B) $y = -7x + 5$

C) $y = \frac{5}{7}x + 5$

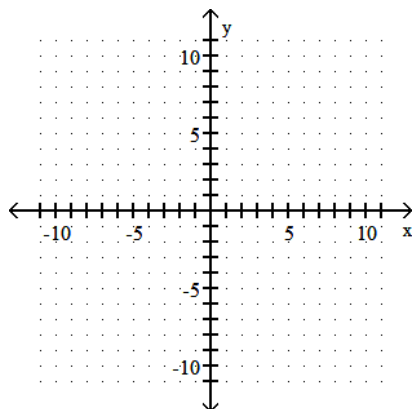
D) $y = \frac{7}{5}x - 7$

Graph the equation by using the slope and y-intercept.

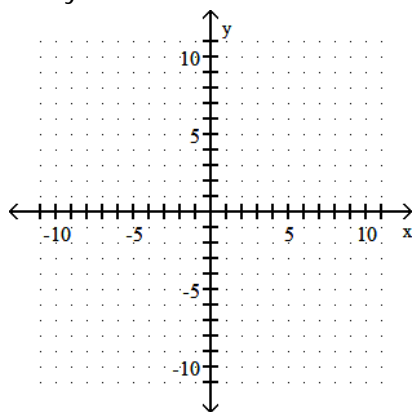
3) $y = 3x + 6$



4) $y = \frac{5}{4}x - 1$

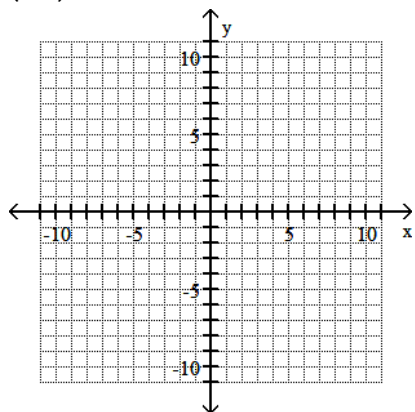


5) $2x + y = 6$

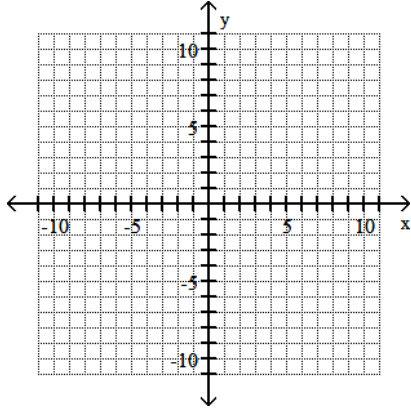


Graph the line through the given point with the given slope.

6) $(0, 5)$, $m = -5$



7) $(4, 0), m = -\frac{1}{2}$



Write an equation of the line through the given point with the given slope. Write the equation in slope-intercept form.

8) $(2, 2); m = -6$

A) $y = -6x + 14$

B) $y = -6x - 14$

C) $y = -\frac{1}{6}x + 14$

D) $y = -6x + \frac{1}{14}$

8) _____

Write the slope-intercept form of the equation for the line passing through the given pair of points.

9) $(9, 7)$ and $(0, -4)$

A) $y = -\frac{11}{9}x - 4$

B) $y = \frac{1}{2}x - 4$

C) $y = -\frac{1}{2}x - 4$

D) $y = \frac{11}{9}x - 4$

9) _____

Write an equation for the line passing through the given pair of points. Give your final answer in standard form.

10) $(6, 9)$ and $(9, 12)$

A) $x + y = -3$

B) $x - y = 3$

C) $x - y = -3$

D) $x + 2y = 3$

10) _____

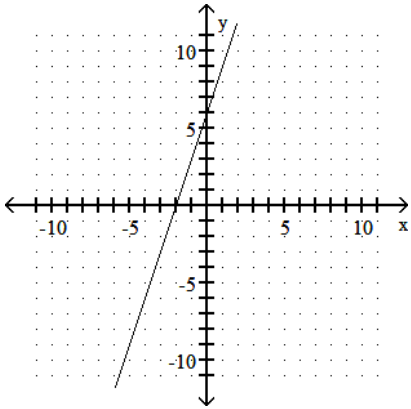
Answer Key

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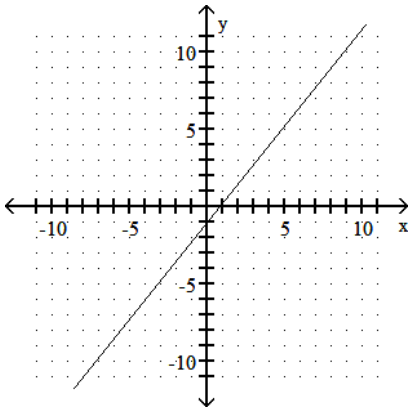
1) C

2) C

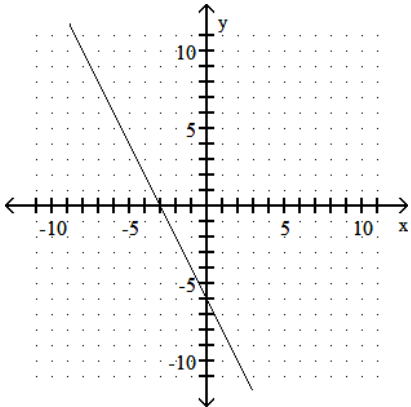
3)



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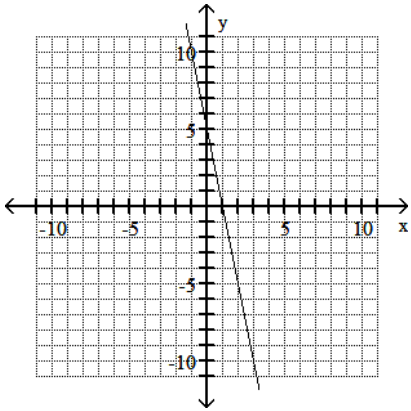
5)



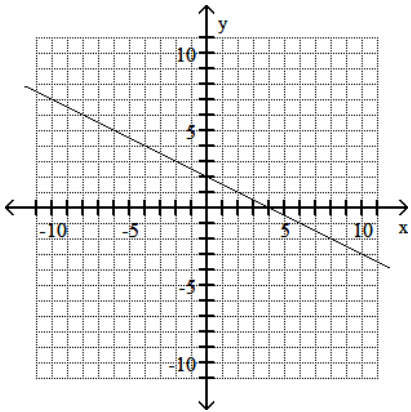
Answer Key

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6)



7)



- 8) A
- 9) D
- 10) C