

2.3 Practice - Slope-Intercept

Write the slope-intercept form of the equation of each line given the slope and the y-intercept.

1) Slope = 2, y-intercept = 5

2) Slope = -6 , y-intercept = 4

3) Slope = 1, y-intercept = -4

4) Slope = -1 , y-intercept = -2

5) Slope = $-\frac{3}{4}$, y-intercept = -1

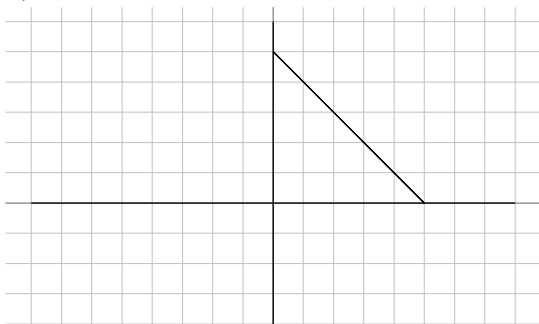
6) Slope = $-\frac{1}{4}$, y-intercept = 3

7) Slope = $\frac{1}{3}$, y-intercept = 1

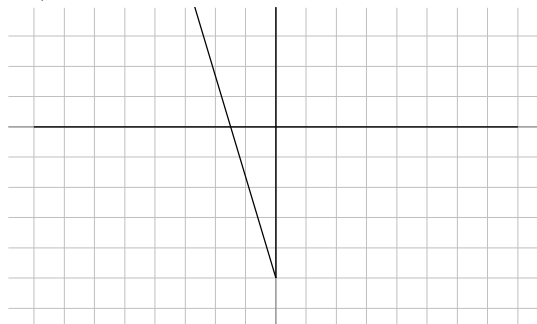
8) Slope = $\frac{2}{5}$, y-intercept = 5

Write the slope-intercept form of the equation of each line.

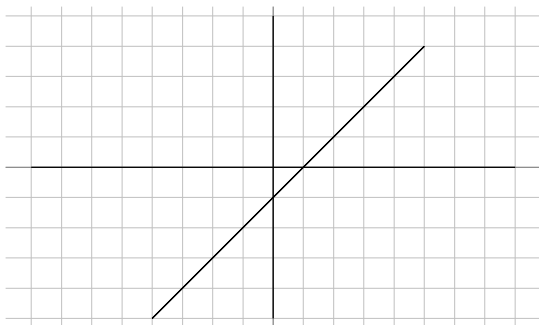
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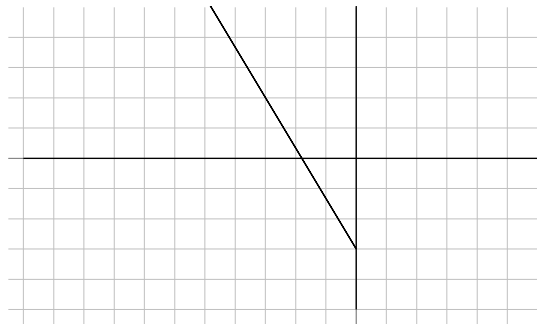
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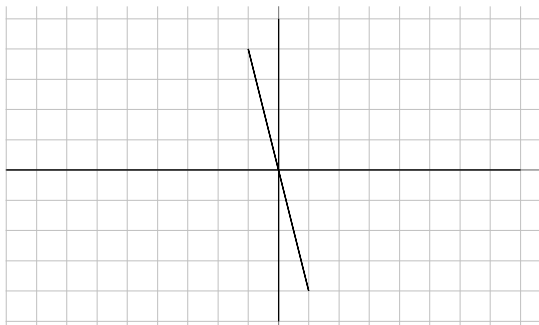
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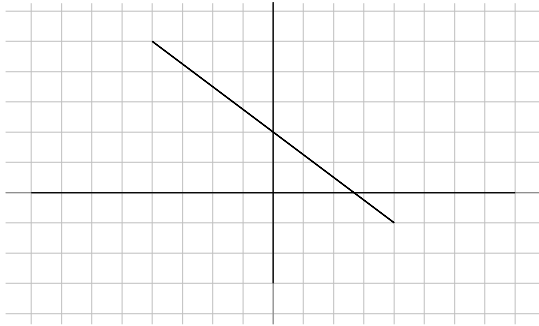
12)



13)



14)



15) $x + 10y = -37$

17) $2x + y = -1$

19) $7x - 3y = 24$

21) $x = -8$

23) $y - 4 = -(x + 5)$

25) $y - 4 = 4(x - 1)$

27) $y + 5 = -4(x - 2)$

29) $y + 1 = -\frac{1}{2}(x - 4)$

16) $x - 10y = 3$

18) $6x - 11y = -70$

20) $4x + 7y = 28$

22) $x - 7y = -42$

24) $y - 5 = \frac{5}{2}(x - 2)$

26) $y - 3 = -\frac{2}{3}(x + 3)$

28) $0 = x - 4$

30) $y + 2 = \frac{6}{5}(x + 5)$

Sketch the graph of each line.

31) $y = \frac{1}{3}x + 4$

33) $y = \frac{6}{5}x - 5$

35) $y = \frac{3}{2}x$

37) $x - y + 3 = 0$

39) $-y - 4 + 3x = 0$

41) $-3y = -5x + 9$

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

34) $y = -\frac{3}{2}x - 1$

36) $y = -\frac{3}{4}x + 1$

38) $4x + 5 = 5y$

40) $-8 = 6x - 2y$

42) $-3y = 3 - \frac{3}{2}x$



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Answers - Slope-Intercept

1) $y = 2x + 5$

2) $y = -6x + 4$

3) $y = x - 4$

4) $y = -x - 2$

5) $y = -\frac{3}{4}x - 1$

6) $y = -\frac{1}{4}x + 3$

7) $y = \frac{1}{3}x + 1$

8) $y = \frac{2}{5}x + 5$

9) $y = -x + 5$

10) $y = -\frac{7}{2}x - 5$

11) $y = x - 1$

12) $y = -\frac{5}{3}x - 3$

13) $y = -4x$

14) $y = -\frac{3}{4}x + 2$

15) $y = -\frac{1}{10}x - \frac{37}{10}$

16) $y = \frac{1}{10}x - \frac{3}{10}$

17) $y = -2x - 1$

18) $y = \frac{6}{11}x + \frac{70}{11}$

19) $y = \frac{7}{3}x - 8$

20) $y = -\frac{4}{7}x + 4$

21) $x = -8$

22) $y = \frac{1}{7}x + 6$

23) $y = -x - 1$

24) $y = \frac{5}{2}x$

25) $y = 4x$

26) $y = -\frac{2}{3}x + 1$

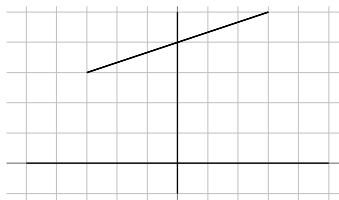
27) $y = -4x + 3$

28) $x = 4$

29) $y = -\frac{1}{2}x + 1$

30) $y = \frac{6}{5}x + 4$

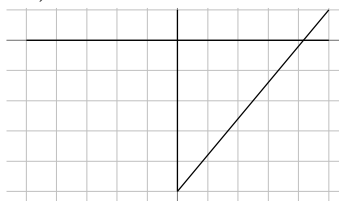
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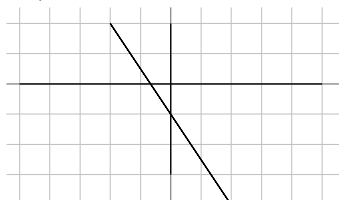
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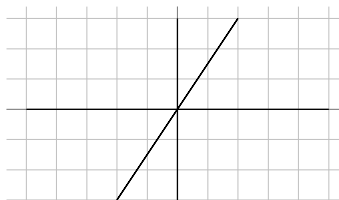
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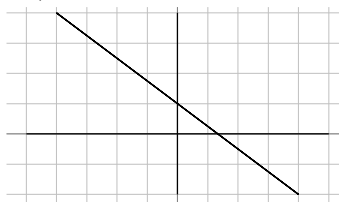
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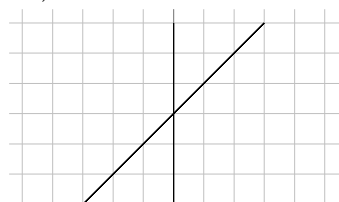
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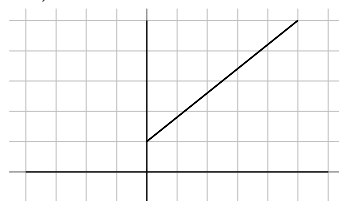
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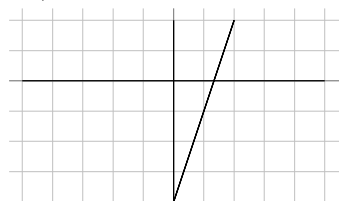
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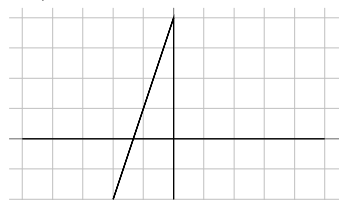
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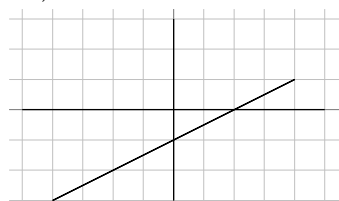
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41)



42)





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