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 $= -1$

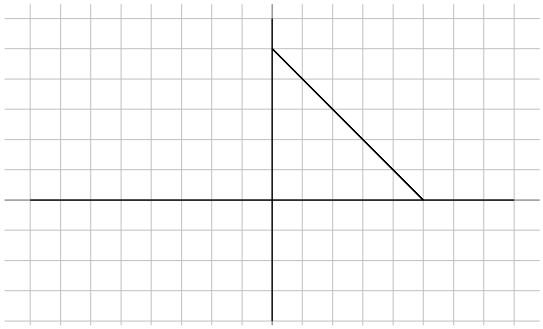
6) Slope $= -\frac{1}{4}$, y-intercept $= 3$

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.

9)



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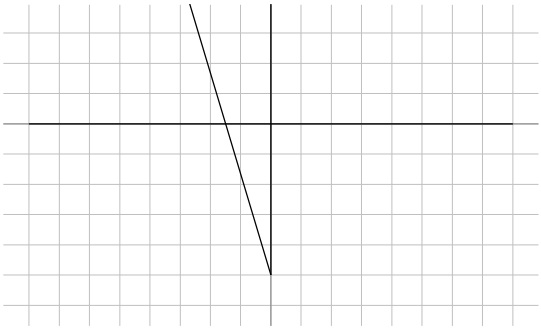

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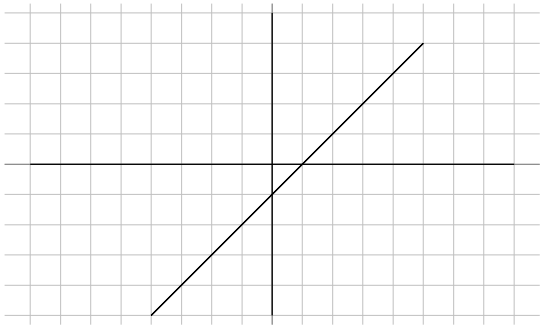

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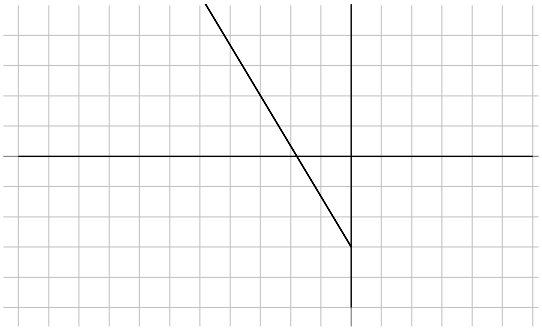

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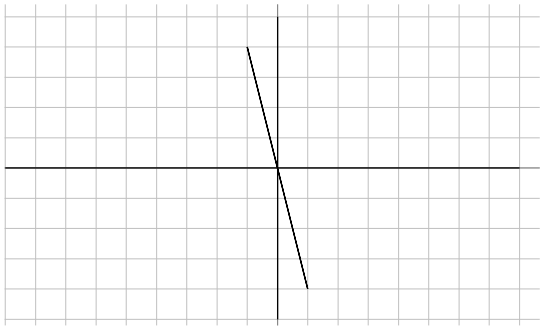

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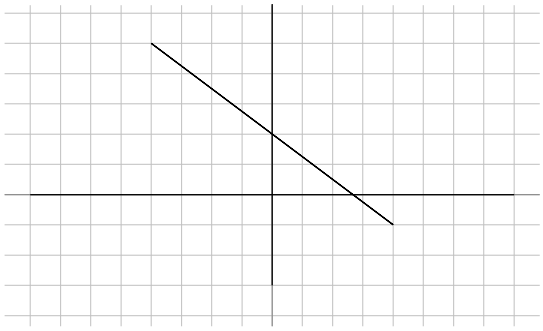


15) $x+10y=-37$

16) $x-10y=3$

17) $2x+y=-1$

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

19) $7x-3y=24$

20) $4x+7y=28$

21) $x=-8$

22) $x-7y=-42$

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

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

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

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

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

28) $0=x-4$

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

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

Sketch the graph of each line.

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

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

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

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

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

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

37) $x-y+3=0$

38) $4x+5=5y$

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

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

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

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

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

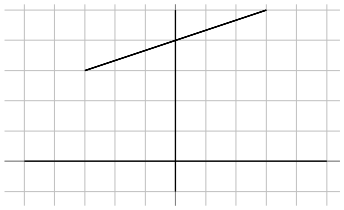
27) $y = -4x + 3$

28) $x = 4$

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

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

31)



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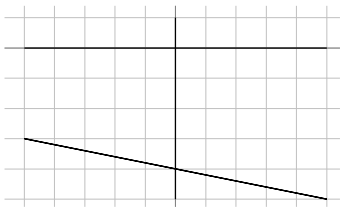

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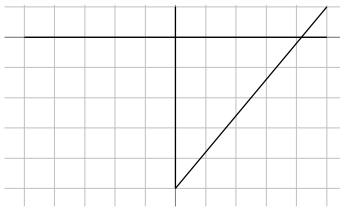

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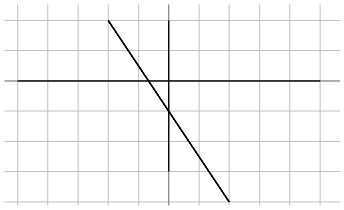

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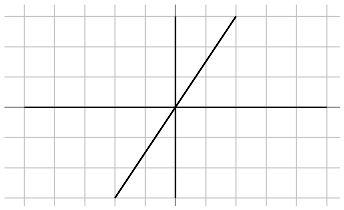

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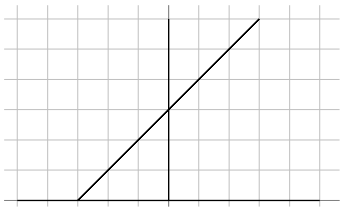

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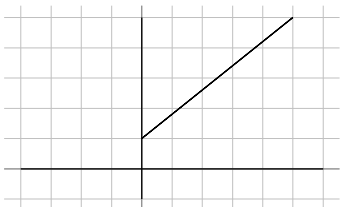

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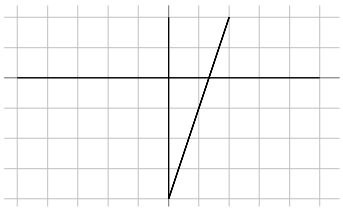

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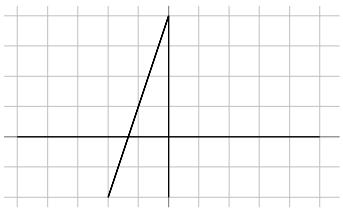

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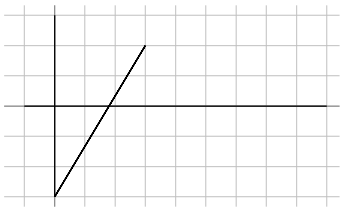

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