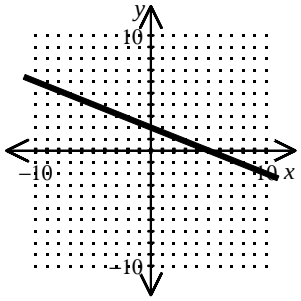
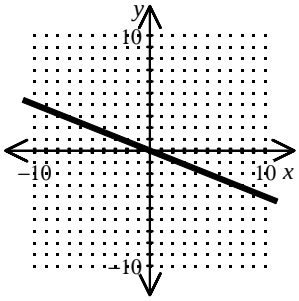
1. Write an equation for a line with slope $m = -\frac{2}{5}$ and y-intercept $b = 2$. Then draw the graph of the equation.

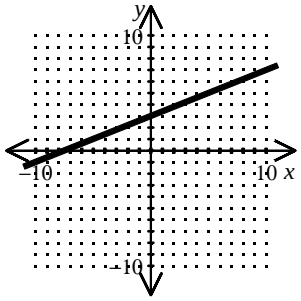
[A] $y = -\frac{2}{5}x + 2$



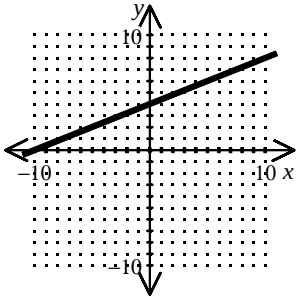
[B] $x = -\frac{2}{5}y + 2$



[C] $y = x + 2$

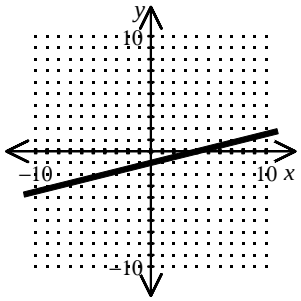


[D] $-\frac{2}{5}y = x + 2$

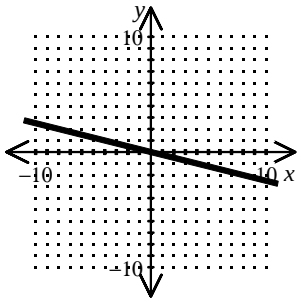


2. Write an equation for a line with slope $m = \frac{1}{4}$ and y-intercept $b = -1$. Then draw the graph of the equation.

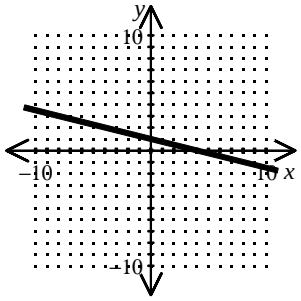
[A] $y = \frac{1}{4}x - 1$



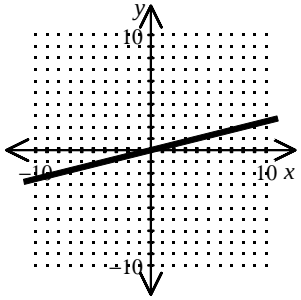
[B] $y = x - 1$



[C] $\frac{1}{4}y = x - 1$

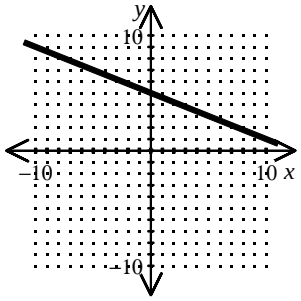


[D] $x = \frac{1}{4}y - 1$

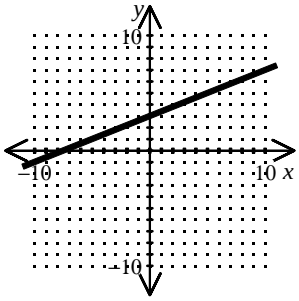


3. Write an equation for a line with slope $m = \frac{2}{5}$ and y-intercept $b = 3$. Then draw the graph of the equation.

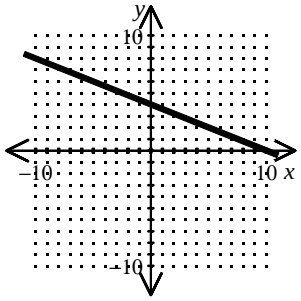
[A] $\frac{2}{5}y = x + 3$



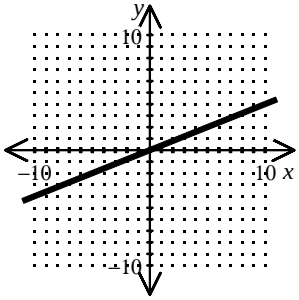
[B] $y = \frac{2}{5}x + 3$



[C] $y = x + 3$

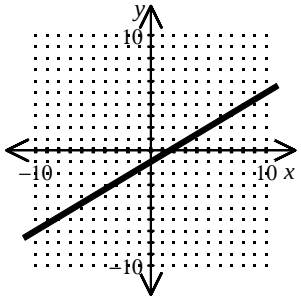


[D] $x = \frac{2}{5}y + 3$

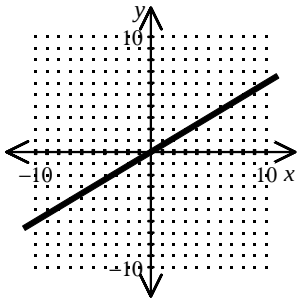


4. Write an equation for a line with slope $m = -\frac{3}{5}$ and y-intercept $b = -2$. Then draw the graph of the equation.

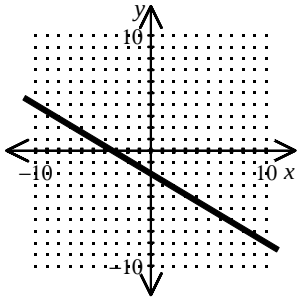
[A] $y = x - 2$



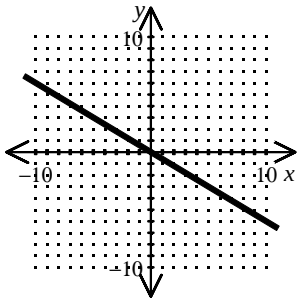
[B] $-\frac{3}{5}y = x - 2$



[C] $y = -\frac{3}{5}x - 2$

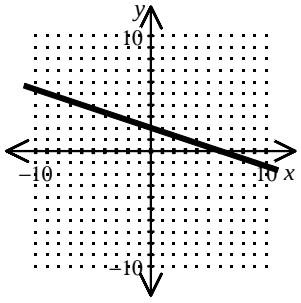


[D] $x = -\frac{3}{5}y - 2$

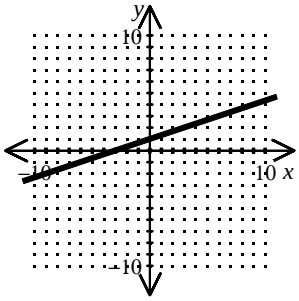


5. Write an equation for a line with slope $m = \frac{1}{3}$ and y-intercept $b = 1$. Then draw the graph of the equation.

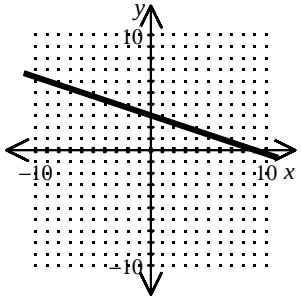
[A] $y = x + 1$



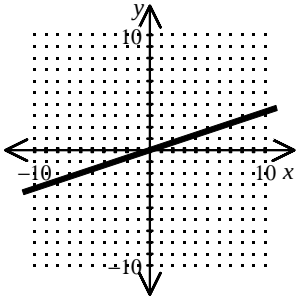
[B] $y = \frac{1}{3}x + 1$



[C] $\frac{1}{3}y = x + 1$

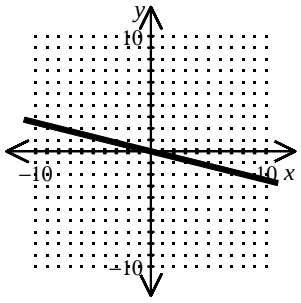


[D] $x = \frac{1}{3}y + 1$

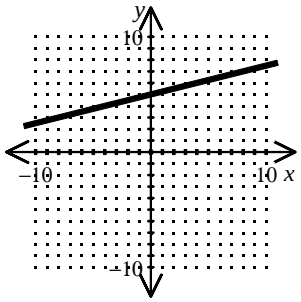


6. Write an equation for a line with slope $m = -\frac{1}{4}$ and y-intercept $b = 3$. Then draw the graph of the equation.

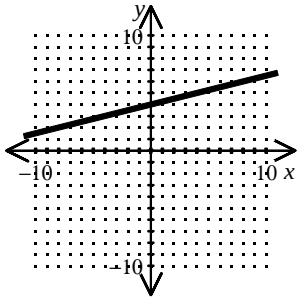
[A] $x = -\frac{1}{4}y + 3$



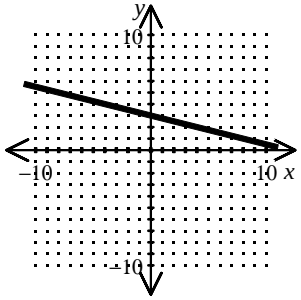
[B] $-\frac{1}{4}y = x + 3$



[C] $y = x + 3$

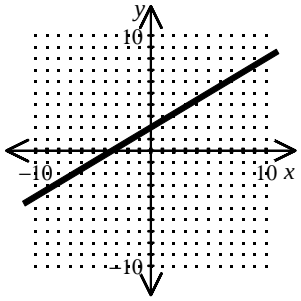


[D] $y = -\frac{1}{4}x + 3$

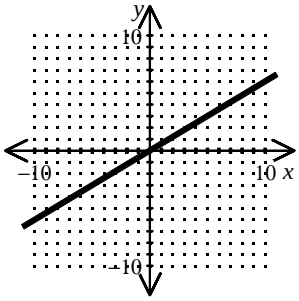


7. Write an equation for a line with slope $m = \frac{3}{5}$ and y-intercept $b = 2$. Then draw the graph of the equation.

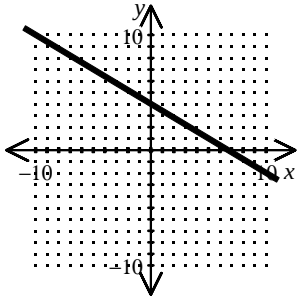
[A] $y = \frac{3}{5}x + 2$



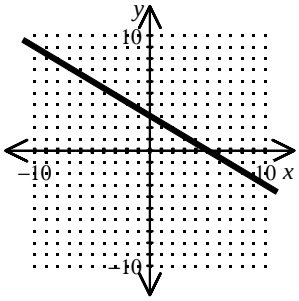
[B] $x = \frac{3}{5}y + 2$



[C] $\frac{3}{5}y = x + 2$

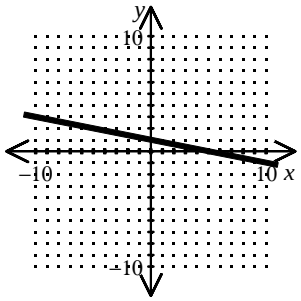


[D] $y = x + 2$

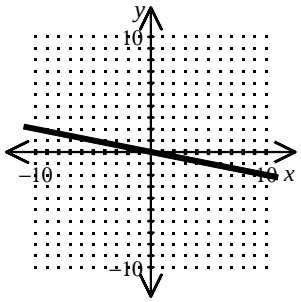


8. Write an equation for a line with slope $m = -\frac{1}{5}$ and y-intercept $b = 1$. Then draw the graph of the equation.

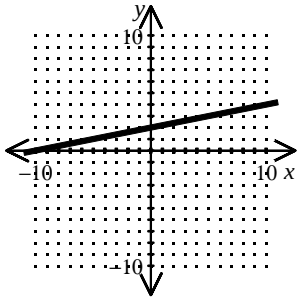
[A] $y = -\frac{1}{5}x + 1$



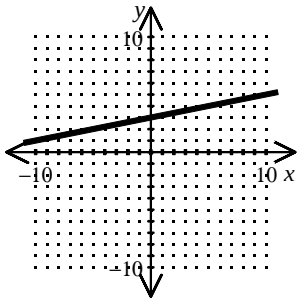
[B] $x = -\frac{1}{5}y + 1$



[C] $y = x + 1$

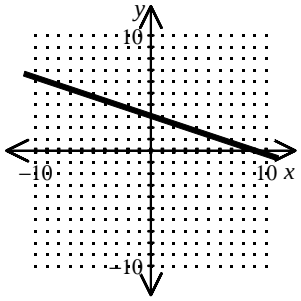


[D] $-\frac{1}{5}y = x + 1$

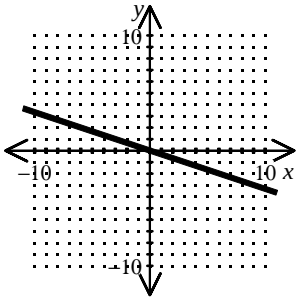


9. Write an equation for a line with slope $m = -\frac{1}{3}$ and y-intercept $b = 3$. Then draw the graph of the equation.

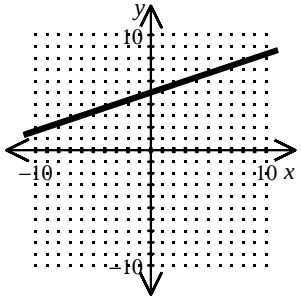
[A] $y = -\frac{1}{3}x + 3$



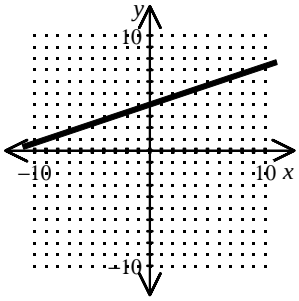
[B] $x = -\frac{1}{3}y + 3$



[C] $-\frac{1}{3}y = x + 3$

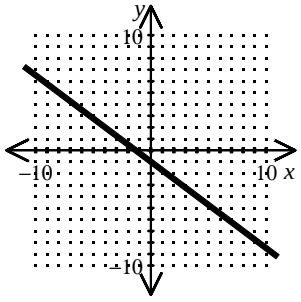


[D] $y = x + 3$

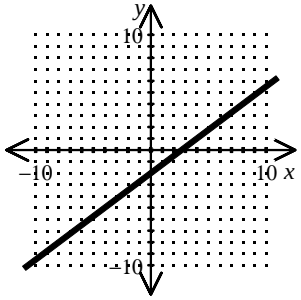


10. Write an equation for a line with slope $m = \frac{3}{4}$ and y-intercept $b = -2$. Then draw the graph of the equation.

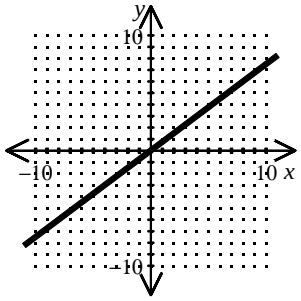
[A] $y = x - 2$



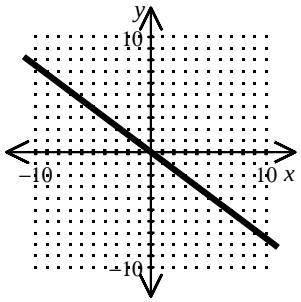
[B] $y = \frac{3}{4}x - 2$



[C] $x = \frac{3}{4}y - 2$



[D] $\frac{3}{4}y = x - 2$



11. Use the slope and *y*-intercept to graph $y = 2x - 6$.

12. Use the slope and *y*-intercept to graph $y = -3x + 3$.

13. Use the slope and *y*-intercept to graph $y = -4x - 7$.

14. Use the slope and *y*-intercept to graph $y = -2x - 8$.

15. Use the slope and *y*-intercept to graph $y = -5x + 4$.

16. Use the slope and *y*-intercept to graph $y = 3x + 2$.

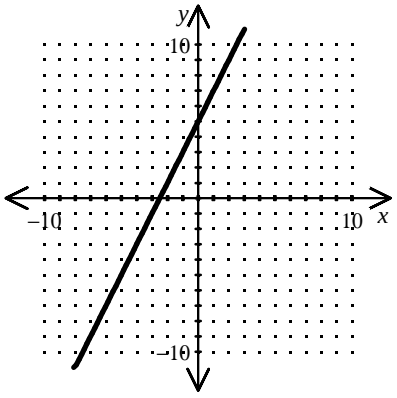
17. Use the slope and *y*-intercept to graph $y = -4x + 6$.

18. Use the slope and *y*-intercept to graph $y = -2x - 5$.

19. Use the slope and *y*-intercept to graph $y = -5x - 3$.

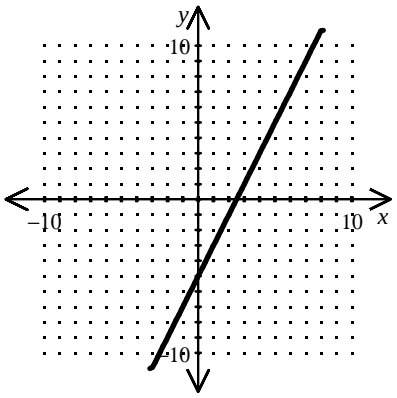
20. Use the slope and *y*-intercept to graph $y = 3x - 7$.

21. Which equation best describes the graph below?



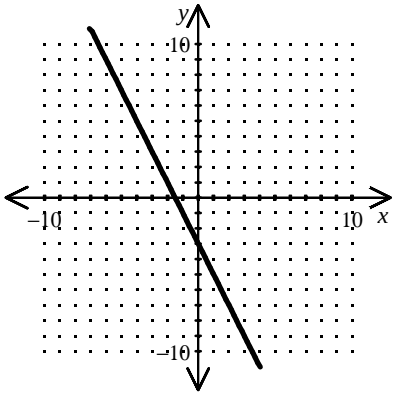
[A] $y = -2x + 5$ [B] $y = 2x + \frac{5}{2}$ [C] $y = 2x + 5$ [D] $y = \frac{1}{2}x + 5$

22. Which equation best describes the graph below?



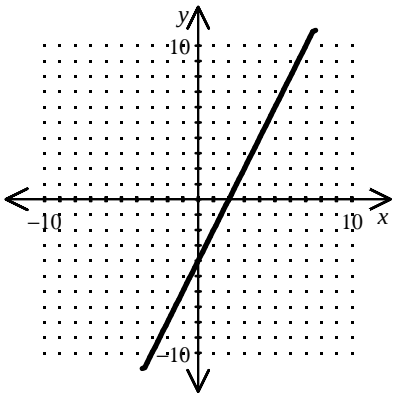
[A] $y = 2x + \frac{5}{2}$ [B] $y = -\frac{1}{2}x - 5$ [C] $y = 2x - 5$ [D] $y = \frac{1}{2}x - 5$

23. Which equation best describes the graph below?



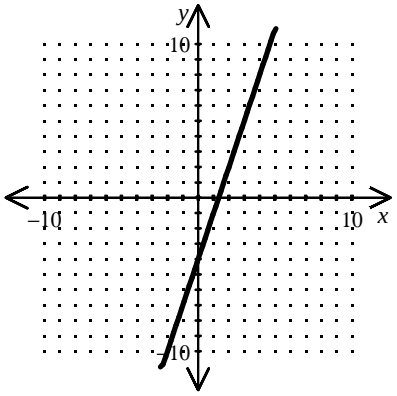
[A] $y = 2x + 3$ [B] $y = -\frac{1}{2}x - 3$ [C] $y = -2x - 3$ [D] $y = -2x + \frac{3}{2}$

24. Which equation best describes the graph below?



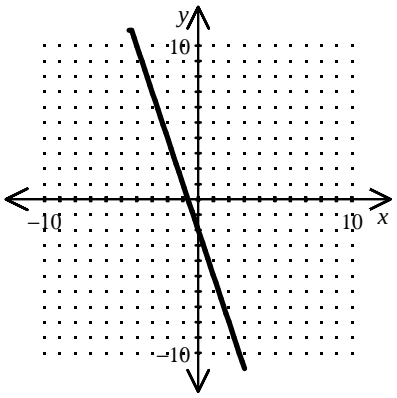
[A] $y = 2x - 4$ [B] $y = -2x - 4$ [C] $y = 2x + 2$ [D] $y = \frac{1}{2}x - 4$

25. Which equation best describes the graph below?



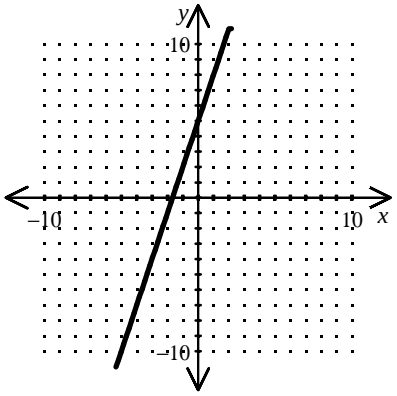
[A] $y = 3x + \frac{4}{3}$ [B] $y = \frac{1}{3}x - 4$ [C] $y = -3x + 4$ [D] $y = 3x - 4$

26. Which equation best describes the graph below?



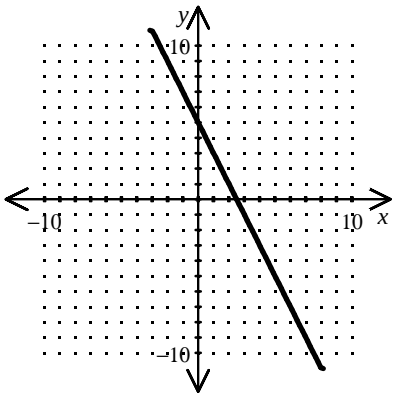
[A] $y = -3x - 2$ [B] $y = \frac{1}{3}x - 2$ [C] $y = -\frac{1}{3}x - 2$ [D] $y = -3x + \frac{2}{3}$

27. Which equation best describes the graph below?



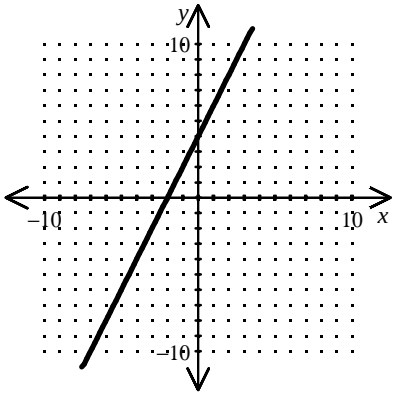
[A] $y = 3x + \frac{5}{3}$ [B] $y = 3x + 5$ [C] $y = \frac{1}{3}x + 5$ [D] $y = -3x - 5$

28. Which equation best describes the graph below?



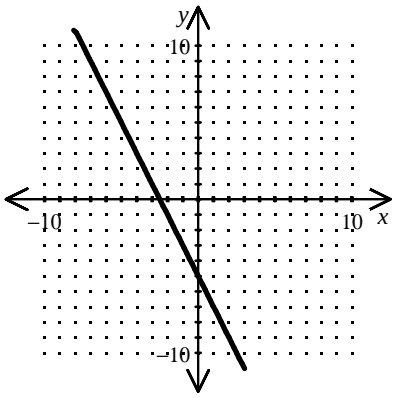
[A] $y = -\frac{1}{2}x + 5$ [B] $y = -2x + \frac{5}{2}$ [C] $y = \frac{1}{2}x + 5$ [D] $y = -2x + 5$

29. Which equation best describes the graph below?



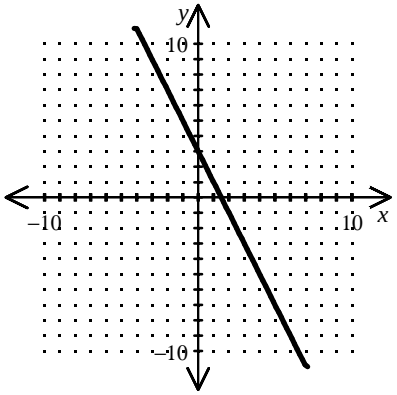
[A] $y = 2x + 4$ [B] $y = -2x + 4$ [C] $y = \frac{1}{2}x + 4$ [D] $y = 2x + 2$

30. Which equation best describes the graph below?

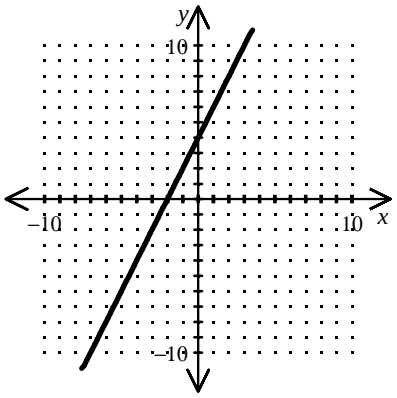


[A] $y = -2x - 5$ [B] $y = -\frac{1}{2}x - 5$ [C] $y = -2x + \frac{5}{2}$ [D] $y = 2x + 5$

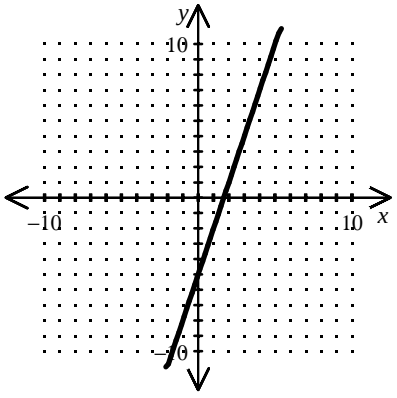
31. Write an equation that best describes the graph below.



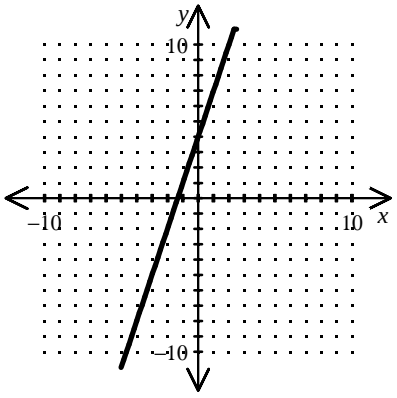
32. Write an equation that best describes the graph below.



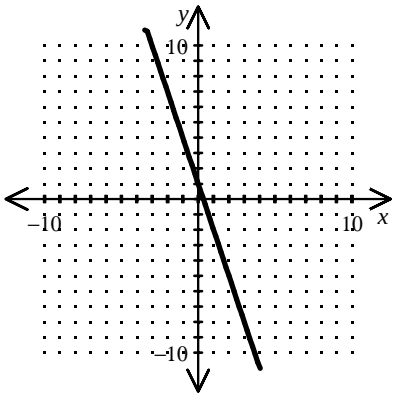
33. Write an equation that best describes the graph below.



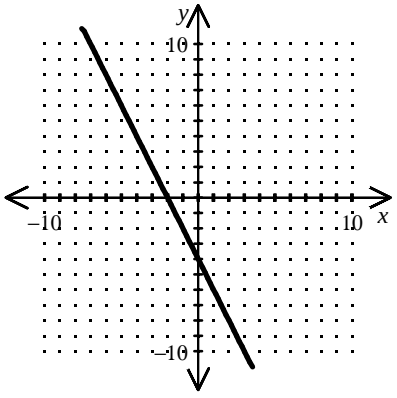
34. Write an equation that best describes the graph below.



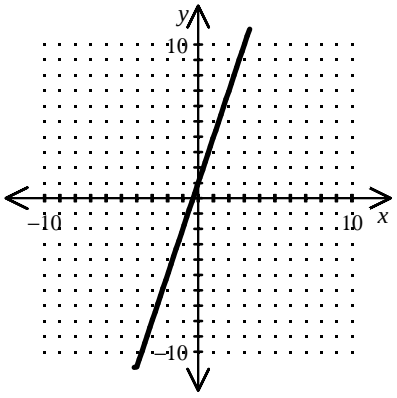
35. Write an equation that best describes the graph below.



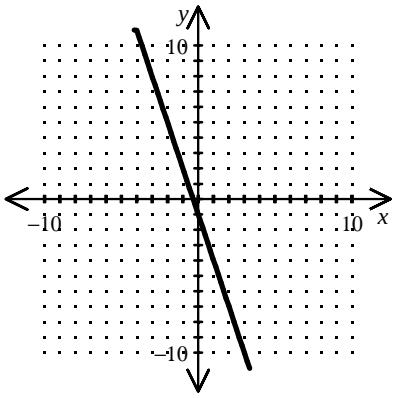
36. Write an equation that best describes the graph below.



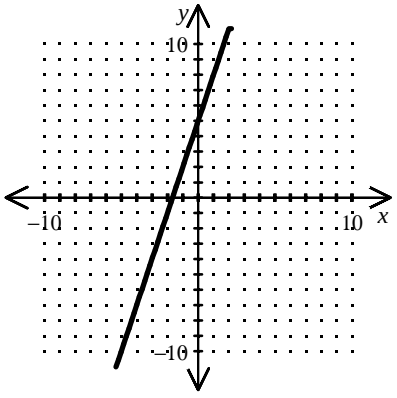
37. Write an equation that best describes the graph below.



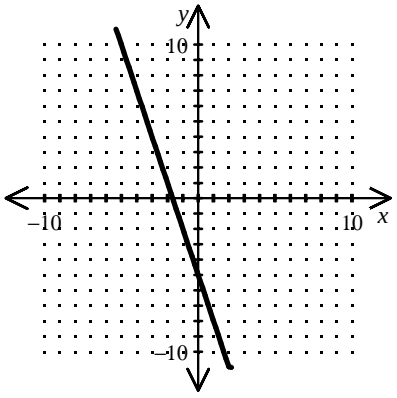
38. Write an equation that best describes the graph below.



39. Write an equation that best describes the graph below.

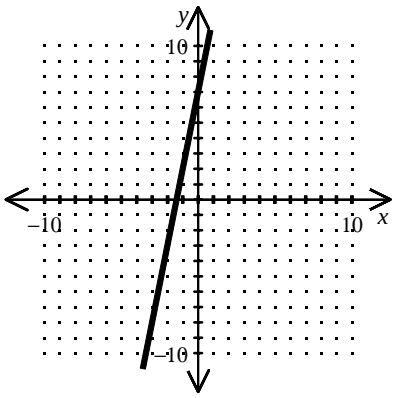


40. Write an equation that best describes the graph below.



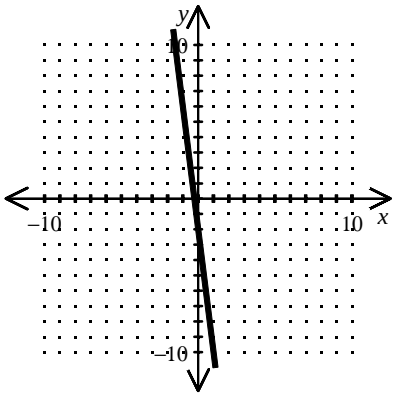
41. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	-3	2	7	12	17



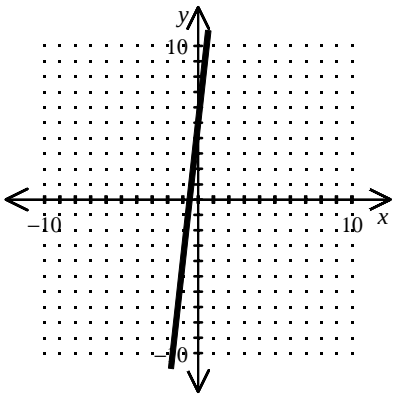
42. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	14	6	-2	-10	-18



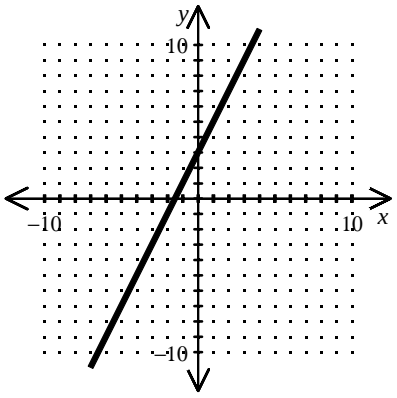
43. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	-13	-4	5	14	23



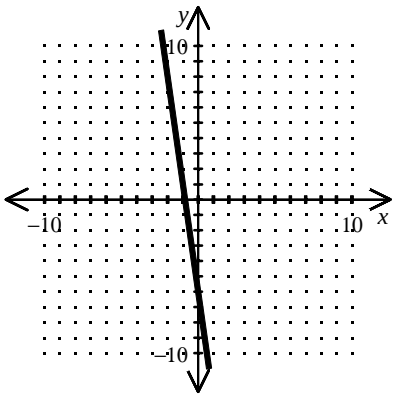
44. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	-1	1	3	5	7



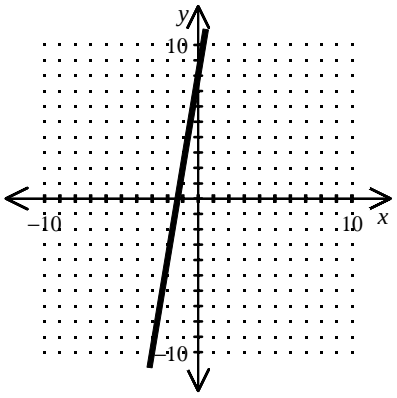
45. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	8	1	-6	-13	-20



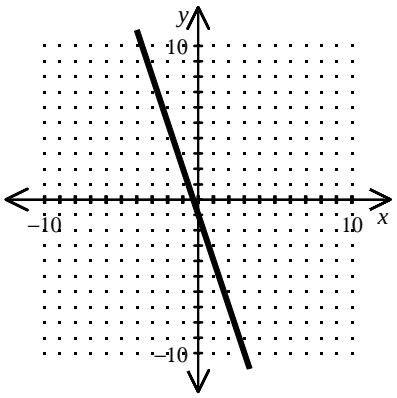
46. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	-4	2	8	14	20



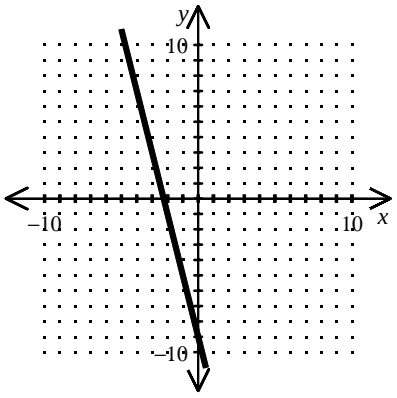
47. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	5	2	-1	-4	-7



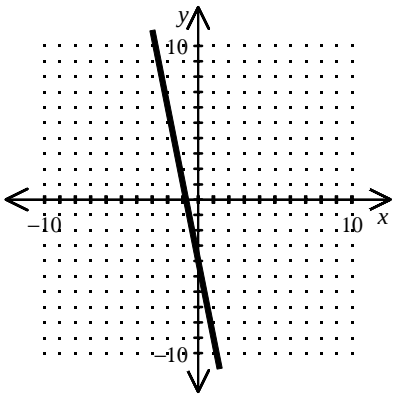
48. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	-1	-5	-9	-13	-17



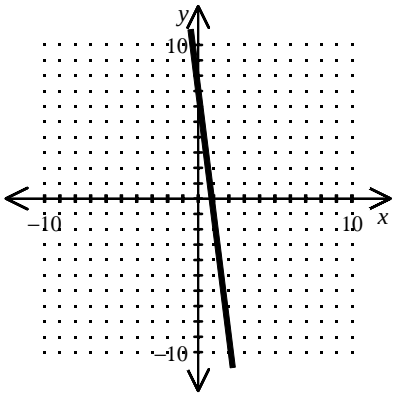
49. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	6	1	-4	-9	-14



50. Use the table and graph to write a linear equation.

x	-2	-1	0	1	2
y	23	15	7	-1	-9



51. Write the slope-intercept form of an equation of the line that passes through the point $(1,-5)$ and has the slope $m=-4$.

[A] $y=4x-1$ [B] $y=-4x-5$ [C] $y=-4x-1$ [D] $y=4x-5$

52. Write the slope-intercept form of an equation of the line that passes through the point $(-7,-3)$ and has the slope $m=3$.

[A] $y=-3x+18$ [B] $y=3x-3$ [C] $y=-3x-3$ [D] $y=3x+18$

53. Write the slope-intercept form of an equation of the line that passes through the point $(-3,1)$ and has the slope $m=2$.

[A] $y=2x+7$ [B] $y=2x+1$ [C] $y=-2x+1$ [D] $y=-2x+7$

54. Write the slope-intercept form of an equation of the line that passes through the point $(-2,2)$ and has the slope $m=-1$.

[A] $y=x$ [B] $y=-x$ [C] $y=-x+2$ [D] $y=x+2$

55. Write the slope-intercept form of an equation of the line that passes through the point $(-5,-4)$ and has the slope $m=-3$.

[A] $y=-3x-4$ [B] $y=3x-4$ [C] $y=3x-19$ [D] $y=-3x-19$

56. Write the slope-intercept form of an equation of the line that passes through the point $(4,-5)$ and has the slope $m=2$.

[A] $y=-2x-13$ [B] $y=2x-5$ [C] $y=-2x-5$ [D] $y=2x-13$

57. Write the slope-intercept form of an equation of the line that passes through the point $(-1,6)$ and has the slope $m=1$.

[A] $y=x+7$ [B] $y=-x+7$ [C] $y=-x+6$ [D] $y=x+6$

58. Write the slope-intercept form of an equation of the line that passes through the point $(6,-3)$ and has the slope $m=-4$.

[A] $y=4x-3$ [B] $y=-4x-3$ [C] $y=-4x+21$ [D] $y=4x+21$

59. Write the slope-intercept form of an equation of the line that passes through the point $(-7,1)$ and has the slope $m=-2$.

[A] $y=-2x+1$ [B] $y=-2x-13$ [C] $y=2x-13$ [D] $y=2x+1$

60. Write the slope-intercept form of an equation of the line that passes through the point $(-3,-2)$ and has the slope $m=-3$.

[A] $y=-3x-11$ [B] $y=3x-11$ [C] $y=3x-2$ [D] $y=-3x-2$

Write an equation in slope-intercept form for a line that passes through the given pair of points.

61. $(-8,\ 6),\ (-4,\ -2)$

[A] $y=-2x-10$ [B] $y=\frac{1}{2}x+10$ [C] $y=\frac{1}{2}x+\frac{1}{10}$ [D] $y=2x-\frac{1}{10}$

62. $(-7,\ 3),\ (-2,\ 5)$

[A] $y=-\frac{5}{2}x-\frac{5}{29}$ [B] $y=\frac{5}{2}x-\frac{29}{5}$ [C] $y=\frac{2}{5}x+\frac{29}{5}$ [D] $y=\frac{2}{5}x+\frac{5}{29}$

63. $(6,\ -5),\ (-3,\ -1)$

[A] $y=\frac{9}{4}x+\frac{3}{7}$ [B] $y=-\frac{9}{4}x+\frac{7}{3}$ [C] $y=-\frac{4}{9}x-\frac{3}{7}$ [D] $y=-\frac{4}{9}x-\frac{7}{3}$

64. $(-8,\ 3),\ (-2,\ 9)$

[A] $y=x+11$ [B] $y=-x-\frac{1}{11}$ [C] $y=x+\frac{1}{11}$ [D] $y=-x-11$

65. $(-7,\ -2),\ (-3,\ 1)$

[A] $y=-\frac{4}{3}x-\frac{4}{13}$ [B] $y=\frac{3}{4}x+\frac{4}{13}$ [C] $y=\frac{3}{4}x+\frac{13}{4}$ [D] $y=\frac{4}{3}x-\frac{13}{4}$

66. $(9,\ -6),\ (6,\ 2)$

[A] $y=-\frac{3}{8}x-18$ [B] $y=-\frac{8}{3}x+\frac{1}{18}$ [C] $y=\frac{3}{8}x-\frac{1}{18}$ [D] $y=-\frac{8}{3}x+18$

67. $(6,\ 4),\ (-1,\ -3)$

[A] $y=-x+\frac{1}{2}$ [B] $y=x-2$ [C] $y=x-\frac{1}{2}$ [D] $y=-x+2$

Write an equation in slope-intercept form for a line that passes through the given pair of points.

68. $(-9,\ 4),\ (-1,\ 8)$

[A] $y = \frac{1}{2}x + \frac{2}{17}$ [B] $y = \frac{1}{2}x + \frac{17}{2}$ [C] $y = -2x - \frac{2}{17}$ [D] $y = 2x - \frac{17}{2}$

69. $(-6,\ -3),\ (-2,\ -9)$

[A] $y = \frac{3}{2}x - \frac{1}{12}$ [B] $y = \frac{2}{3}x + \frac{1}{12}$ [C] $y = \frac{2}{3}x + 12$ [D] $y = -\frac{3}{2}x - 12$

70. $(-6,\ -5),\ (-9,\ -2)$

[A] $y = x + \frac{1}{11}$ [B] $y = -x - \frac{1}{11}$ [C] $y = -x - 11$ [D] $y = x + 11$

71. $(4, 7),\ (1, -2)$

72. $(2, -6),\ (-5, -9)$

73. $(5, 7),\ (9, 3)$

74. $(-5, -6),\ (-8, -4)$

75. $(3, 9),\ (-5, 0)$

76. $(2, -7),\ (9, -1)$

77. $(-3, 6),\ (-9, 3)$

78. $(4, 6),\ (-1, 2)$

Write an equation in slope-intercept form for a line that passes through the given pair of points.

79. $(1,-8),\ (-7,-10)$

80. $(-3,-6),\ (-8,-1)$

81. Write the slope-intercept form of an equation of the line that passes through the point $(6,-3)$ and has the slope $m=1$.

82. Write the slope-intercept form of an equation of the line that passes through the point $(3,-5)$ and has the slope $m=3$.

83. Write the slope-intercept form of an equation of the line that passes through the point $(4,-2)$ and has the slope $m=-5$.

84. Write the slope-intercept form of an equation of the line that passes through the point $(-7,-4)$ and has the slope $m=-4$.

85. Write the slope-intercept form of an equation of the line that passes through the point $(5,-6)$ and has the slope $m=-2$.

86. Write the slope-intercept form of an equation of the line that passes through the point $(-6,1)$ and has the slope $m=-7$.

87. Write the slope-intercept form of an equation of the line that passes through the point $(-3,3)$ and has the slope $m=-6$.

88. Write the slope-intercept form of an equation of the line that passes through the point $(4,-5)$ and has the slope $m=8$.

89. Write the slope-intercept form of an equation of the line that passes through the point $(7, 2)$ and has the slope $m = -1$.

90. Write the slope-intercept form of an equation of the line that passes through the point $(-5, 4)$ and has the slope $m = -8$.