



Write the equation of the line given the information.

1. *slope = 3 and y – intercept is 12*
2. *slope = –1 and y – intercept is 8*
3. *slope = 4 and y – intercept is – 5*
4. *slope = $\frac{1}{2}$ and y – intercept is $\frac{3}{4}$*
5. *slope = –7.3 and y – intercept is 19.2*
6. *horizontal line that passes through (0, 5)*
7. *a vertical line that passes through (–2, 9)*

Write the equation of the line given the information.

8. *slope = 3 line passes through (2, 5)*
9. *slope = –2 line passes through (6, –4)*
10. *slope = 5 line passes through (1, 0)*
11. *slope = $\frac{1}{2}$ line passes through (–2, –8)*
12. *slope = $-\frac{3}{5}$ line passes through (4, 4)*

Write the equation of the line given the information.

13. *a line passes through the points (4, –7) and (6, –10)*
14. *a line passes through the points (–9, –4) and (–14, –1)*
15. *a the line that passes through (1, 9) and is perpendicular to the line $8y = 24$*
16. *a line that passes through (–7, 3) and is parallel to $4y + 2x = 5$*

Answer Key

Write the equation of the line given the information.

1. slope = 3 and y – intercept is 12 $y = 3x + 12$
2. slope = -1 and y – intercept is 8 $y = -1x + 8$
3. slope = 4 and y – intercept is - 5 $y = 4x - 5$
4. slope = $\frac{1}{2}$ and y – intercept is $\frac{3}{4}$ $y = \frac{1}{2}x + \frac{3}{4}$
5. slope = -7.3 and y – intercept is 19.2 $y = -7.3x + 19.2$
6. horizontal line that passes through (0,5) $y = 5$
7. a vertical line that passes through (-2, 9) $x = -2$

Write the equation of the line given the information.

8. slope = 3 line passes through (2, 5) $y = 3x - 1$
9. slope = -2 line passes through (6, -4) $y = -2x + 8$
10. slope = 5 line passes through (1, 0) $y = 5x - 5$
11. slope = $\frac{1}{2}$ line passes through (-2, -8) $y = 1/2x - 7$
12. slope = $-\frac{3}{5}$ line passes through (4, 4) $y = -\frac{3}{5}x + \frac{32}{5}$

Write the equation of the line given the information.

13. a line passes through the points (4, -7) and (6, -10) $y = -\frac{3}{2}x - 1$
14. a line passes through the points (-9, -4) and (-14, -1) $y = -\frac{3}{5}x - \frac{47}{5}$
15. a the line that passes through (1, 9) and is perpendicular to the line $8y = 24$
 $x = 1$
16. a line that passes through (-7, 3) and is parallel to $4y + 2x = 5$
 $y = -\frac{1}{2}x - \frac{1}{2}$