

**Write an equation to the line containing the given points.**

1. A(8, -2) &amp; B(-12, -17)

2. C(3, 22) &amp; D(-1, -6)

3. E(-7, -25) &amp; F(0, -4)

4. G(12, 12) &amp; H(18, 15)

**Write an equation in slope-intercept form for each line described.**

5. Passes through (-7, -4), perpendicular to

$$y = \frac{1}{2}x + 9$$

6. Passes through (-1, -10), parallel to  $y = 7$

7. Passes through (6, 2), parallel to

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

8. Passes through (-2, 2), perpendicular to

$$y = -5x - 8$$

9. Passes through (4, 2) that is parallel to the line  $y - 2 = 3(x + 7)$

10. Contains the point (-8, 12) that is perpendicular to the line containing the points (3, 2) and (-7, 2)

**Write an equation in slope-intercept form for each line described.**

- 11.** Contains the point  $(5, 3)$  that is parallel to the line  $y + 11 = \frac{1}{2}(4x + 6)$

- 12.** Write an equation in slope-intercept form for a line perpendicular to  $y = -2x + 6$  containing  $(3, 2)$ .

- 13.** Write an equation for a line parallel to  $y = 4x - 5$  containing  $(-1, 5)$ .

- 14.** Write an equation of the line that is parallel to the graph of  $y = 7x - 3$  and passes through the origin.

- 15.** Contains the point  $(-10, 2)$  that is perpendicular to the line containing the points  $(0, -8)$  and  $(5, 17)$

- 16.** Contains the point  $(21, 12)$  that is parallel to the line containing the points  $(30, 8)$  and  $(-15, -7)$

- 17.** Perpendicular to the line shown and containing the point  $(9, -6)$

