

Parallel, Perp., and Points

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

1) $8x - 3y = 0$

2) $y = 6$

3) $y + 4 = -\frac{9}{5}(x - 5)$

4) $y + 1 = 2(x - 1)$

5) $x = 9 - 3y$

6) $15 = -3x + 3y$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

7) through: $(-5, -3)$, slope $= \frac{2}{5}$

8) through: $(-5, -1)$, slope $= \frac{6}{5}$

Write the slope-intercept form of the equation of the line through the given points.

9) through: $(4, 3)$ and $(0, 1)$

10) through: $(0, -2)$ and $(-4, 1)$

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

11) through: $(3, 4)$, parallel to $y = -\frac{1}{4}x - 4$

12) through: $(-4, 3)$, parallel to $y = -\frac{3}{2}x - 5$

13) through: $(-5, 2)$, perp. to $y = \frac{5}{2}x$

14) through: $(-5, -2)$, perp. to $y = -x - 5$

Write the standard form of the equation of each line.

15) $-5 = y + x$

16) $0 = y + x - 5$

Write the standard form of the equation of the line through the given point with the given slope.

17) through: $(-4, 2)$, slope = -1

18) through: $(2, -1)$, slope = -1

Write the standard form of the equation of the line through the given points.

19) through: $(-3, 0)$ and $(3, 1)$

20) through: $(-5, -5)$ and $(2, -2)$

Write the standard form of the equation of the line described.

21) through: $(5, 3)$, parallel to $y = \frac{3}{5}x + 5$

22) through: $(2, 2)$, parallel to $y = x + 5$

23) through: $(4, -3)$, perp. to $y = \frac{6}{5}x + 3$

24) through: $(-4, 3)$, perp. to $x = 0$