

Parallel and Perpendicular Lines

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

1) through: $(0, 5)$, parallel to $y = \frac{5}{2}x - 5$

2) through: $(5, 2)$, parallel to $y = -\frac{1}{5}x + 2$

3) through: $(-3, -3)$, parallel to $y = \frac{8}{3}x - 5$

4) through: $(4, 5)$, parallel to $y = \frac{5}{2}x - 1$

5) through: $(-5, 3)$, parallel to $y = -\frac{1}{5}x + 4$

6) through: $(1, -4)$, parallel to $y = -2x + 3$

7) through: $(1, 0)$, parallel to $y = 4x + 3$

8) through: $(1, 0)$, parallel to $y = -\frac{3}{4}x - 1$

9) through: $(1, 0)$, perp. to $y = -2x + 3$

10) through: $(1, -1)$, perp. to $y = \frac{1}{5}x - 3$

11) through: $(-2, 2)$, perp. to $x = 0$

12) through: $(-4, -2)$, perp. to $y = -\frac{7}{4}x - 2$

13) through: $(-4, -5)$, perp. to $y = -\frac{4}{7}x + 5$

14) through: $(-4, 4)$, perp. to $y = 2x - 5$

15) through: $(2, 2)$, perp. to $y = -\frac{1}{3}x - 1$

16) through: $(-3, 5)$, perp. to $y = \frac{3}{2}x + 1$