

Write the equation of the line (in slope-intercept form) that goes through the given point, and is perpendicular to the given line.

1. $(-5, 0)$ and $y = 5x + 1$

2. $(5, 3)$ and $y = \frac{5}{2}x - 1$

3. $(2, 0)$ and $y = -\frac{2}{5}x - 2$

4. $(-5, 3)$ and $y = \frac{5}{4}x - 4$

5. $(1, -2)$ and $y = \frac{1}{4}x - 2$

6. $(-3, -1)$ and $y = -x + 4$

7. $(-2, 3)$ and $y = x + 1$

8. $(3, -5)$ and $y = \frac{1}{3}x + 5$

9. $(-1, 1)$ and $y = -\frac{1}{4}x + 1$

10. $(-4, 3)$ and $y = \frac{1}{2}x + 5$