

Find the slope of the line through the following pairs of points.

1. $(3, 13)$ $(-30, 24)$

2. $(5, 4)$ $(-2, 15)$

3. $(3, 1)$ $(6, 1)$

4. $(-2, 5)$ $(-2, 4)$

5. Find the equation of the vertical line that contains the point $(1, 2)$.

6. Find the equation of the horizontal line containing the point $(3, 4)$.

Find the slope and y-axis intercept for the following lines.

7. $2x + y = 7$

8. $12x - 3y = 15$

9. $y = 9$

10. $x = -4$

Find the slope of any line perpendicular to the following lines.

11. $y = \frac{7}{11}x + 11$

12. $y = -4x + 2$