

Equations of Lines (3.5)

Name _____ Period _____

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

1. $(-11, 4), (-7, -6)$

2. $(-10, -2), (14, 3)$

3. $(2, 1), (-5, 6)$

4. $(-3, 6), (-3, 15)$

5. $(8, -2), (-1, -7)$

6. $(-2, 1), (2, 1)$

Find the slope of each line.

7. $y = \frac{2}{5}x + 4$

8. $2x + 3y = 18$

9. $6x + 4y = -12$

10. $x = \frac{4}{3}y - 12$

11. $y - 2 = -2(x - 7)$

12. $y = -(x + 4) - 5$

Write an equation of a line passing through the given point with the given slope.

13. $(4, -3)$ $m = -2$

14. $(-4, -4)$, $m = \frac{5}{4}$

15. $(-4, -3)$, slope = $\frac{3}{2}$

Write an equation of a line passing through the given points.

16. $(-3, 5)$ and $(-2, 4)$

17. $(0, 5)$ and $(-3, -1)$

18. $(2, -1)$ and $(4, 3)$