

Date: _____

Name: John Doe

Writing Linear Equations

Date: _____ Period: 2

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

11. $3x - 2y = 18$

$$y = \frac{3}{2}x - 9$$

12. $4x - 3y = 12$

$$y = \frac{4}{3}x - 4$$

13. $x + 2y = 6$

$$y = -\frac{1}{2}x + 3$$

14. $x - 2y = 8$

$$y = \frac{1}{2}x - 4$$

15. $2x + 3y = 9$

$$y = -\frac{2}{3}x + 3$$

16. $3x - 4y = 12$

$$y = \frac{3}{4}x - 3$$

17. $5x + 6y = 30$

$$y = -\frac{5}{6}x + 5$$

18. $7x - 8y = 28$

$$y = \frac{7}{8}x - 3.5$$

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

19. through $(2, 5)$, slope = 3

$$y - 5 = 3(x - 2)$$

20. through $(3, 1)$, slope = 2

$$y - 1 = 2(x - 3)$$

21. through $(-1, 4)$, slope = -2

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

22. through $(4, 6)$, slope = $\frac{1}{2}$

$$y - 6 = \frac{1}{2}(x - 4)$$

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

$$y - 6 = \frac{1}{2}(x - 4)$$