

Practice 2-2

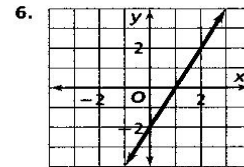
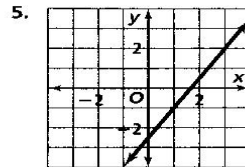
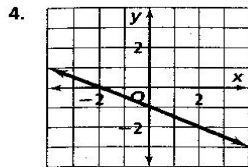
Linear Equations

Find the slope of each line.

1. $2x - 5y = 0$

2. $5x - y = -7$

3. $x - \frac{2}{3}y = \frac{1}{4}$



7. through $(4, -1)$ and $(-2, -3)$

8. through $(3, -5)$ and $(1, 2)$

Write in ~~point-slope~~ ^{standard} form the equation of the line through each pair of points.

9. $(0, 1)$ and $(3, 0)$

10. $(\frac{1}{2}, \frac{2}{3})$ and $(-\frac{3}{2}, \frac{5}{3})$

11. $(-3, -2)$ and $(1, 6)$

Graph each equation.

12. $4x + 3y = 12$

13. $\frac{x}{3} - \frac{y}{6} = 1$

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

Write in standard form an equation of the line with the given slope through the given point.

15. slope = -4 ; $(2, 2)$

16. slope = $\frac{2}{5}$; $(-1, 3)$

17. slope = 0 ; $(3, -4)$

Find the slope and the intercepts of each line.

18. $3x - 4y = 12$

19. $y = -2$

20. $f(x) = \frac{4}{5}x + 7$

21. $x = 5$

Write an equation for each line. Then graph the line.

22. through $(-1, 3)$ and parallel to $y = 2x + 1$

23. through $(2, 2)$ and perpendicular to $y = -\frac{3}{5}x + 2$

24. through $(-3, 4)$ and vertical

25. through $(4, 1)$ and horizontal