

Part A

Graph the line with the given slope that contains the given point.

20. slope = $-\frac{1}{2}$; (3, 1) **21.** slope = $\frac{3}{5}$; (1, -2) **22.** slope = 4; (-1, 0)

Write an equation in point-slope form for the line with the given slope that contains the given point.

23. slope = $\frac{2}{9}$; (-1, 5)

24. slope = 0; (4, -2)

25. slope = 8; (1, 8)

26. slope = $\frac{1}{2}$; (-8, 3)

27. slope = 3; (4, 7)

28. slope = -2; (-1, 3)

Write an equation in slope-intercept form for the line with the given slope that contains the given point.

29. slope = $-\frac{2}{7}$; (14, -3)

30. slope = $\frac{4}{5}$; (-15, 1)

31. slope = $-\frac{1}{4}$; (4, -1)

32. slope = -6; (9, 3)

Write an equation in slope-intercept form for the line through the two points.

35. (7, 8) and (-7, 6)

36. (2, 7) and (-4, 4)

37. (-1, 2) and (4, -23)

38. (4, -1) and (-8, -10)

39. (0, 11) and (-7, -3)

40. (1, 27) and (-2, 12)