

page 60 # 14, 18-19, 24-32 (even), 37-49 (odd)

14. distance = $\sqrt{97} \approx 9.85$; midpoint $\left(\frac{1}{2}, 1\right)$

18. $(x-5)^2 + (y+3)^2 = 16$

19. Center $(-5, -4)$; radius = 3

24. $-\frac{3}{5}$

26. $9x + 7y + 17 = 0$

28. $y = \frac{3}{2}x - \frac{5}{2}$

30. $y = \frac{3}{4}x - \frac{7}{4}$

32. $y = \frac{5}{2}x - 8$

37. $x = -3$

39. $y = 3$

41. $x = 2 \pm \sqrt{7}$

43. $x = \frac{1}{3}$, or $x = -\frac{3}{2}$

45. $x = \frac{7}{2}$, or $x = -4$

47. $x = \frac{5}{2}$

49. $x = 0$ or $x = 3$