



## Answers for Lesson 7-5 Exercises (cont.)

---

52. Answers may vary. Sample:  $\sqrt{x - 3} = \sqrt{3x + 5}$

53. 1

54. 0, 2

55. 2

56. 0

57. **Plan 1:** Use a calculator to evaluate  $\sqrt{2} + 2$  and store the result as  $x$ . Evaluate  $\sqrt{x + 2}$  and store the result as  $x$ . Continue this procedure about seven times until it becomes clear that the values are approaching 2. **Plan 2:** The given equation is equivalent to  $x = \sqrt{2 + x}$ . Solve this equation to find that  $x = 2$ .

58. a. A counterexample is  $a = 3, b = -3$ .

b. A counterexample is  $a = -5, b = 3$ .