

ANSWER PRESENTATION TOOL

Algebra 1 - Student Edition

9

Chapter Test

1-17

ALL EVEN

Show Solutions

ODD

- $x = 11, x = -11$; *Sample answer:* The equation can be written in the form $x^2 = d$, so solve using square roots.
- $x \approx 7.36, x \approx -1.36$; *Sample answer:* $a = 1$ and b is even, so solve by completing the square.
- $x \approx -1.27, x \approx 2.77$; *Sample answer:* The equation is not factorable and $a \neq 1$, so solve using the quadratic formula.
- $x = 4, x = 3$; *Sample answer:* The equation is easily factorable, so solve by factoring.
- $x = \frac{4}{5}, x = -1$; *Sample answer:* The equation is not easily factorable and $a \neq 1$, so solve using the quadratic formula.
- $x = \frac{1}{4}, x = -\frac{7}{4}$; *Sample answer:* The equation is in the form $x^2 = d$ where x is a binomial, so solve using square roots.
- The equation can be put in vertex form $y = 2(x + 1)^2 - 8$. The vertex, $(-1, -8)$ is in the third quadrant, so the function cannot be represented by the graph shown.

8. *Sample answer:* $\frac{1}{2 + \sqrt{3}}$

9. $(2, -6), (-2, 10)$

10. $(-1, -7), \left(\frac{6}{5}, -7\right)$

11. $(1, 3)$

12. 55 points

13. about 3.16 sec

14. $36x^3\sqrt{10x}$ in.²

15. Use the discriminant to determine the number of solutions.

16. a. *Sample answer:* $a = 3, b = 2, c = -1$

b. *Sample answer:* $a = 3, b = 6, c = 3$

c. *Sample answer:* $a = 2, b = 3, c = 4$

17. a. after 10 h
b. after 8 h
c. after 8 h; before 8 h

