

ANSWER PRESENTATION TOOL

Algebra 1 - Student Edit

9

4 - Exercises

1-3, 6-14 ev

ALL EVEN

Show Solu

ODD

1. completing the square

2. Add $\left(\frac{b}{2}\right)^2$ to $x^2 + bx$.

3. even; When b is even, $\frac{b}{2}$ is an integer.

6. 1

8. 36

10. $\frac{81}{4}$

12. $x^2 - 40x + 400; (x - 20)^2$

14. $x^2 + 22x + 121; (x + 11)^2$

18. $x = 8, x = -2$

20. $x \approx 1.45, x \approx -3.45$

- 24. a.** $x^2 - 8x = 768$
b. length: 32 cm, height: 24 cm

26. $x = 3, x = -7$

31. $x = 8, x = -1$

- 33.** The number 16 should be added to each side of the equation;
 $x^2 + 8x + 16 = 10 + 16; x = -4 \pm \sqrt{26}$

38. $y = -(x - 4)^2 + 4; A$

41. minimum value; -6

43. maximum value; -5

- 52.** r, n ; The graph has one positive x -intercept and one negative x -intercept, and it opens down.

78. $2\sqrt{3}$

79. $6\sqrt{2}$

80. $2\sqrt{5}$