

Algebra Chapter 9 Test Answers

1. up
2. $y = \frac{1}{2} x^2$
3. a.) $x = -1 \frac{1}{2}$
b.) left
c.) $(-2, 0)$ and $(-1, 0)$
4. $2\sqrt{10}$
5. $10\sqrt{2}$
6. $5a\sqrt{2}$
7. $3y\sqrt{7y}$
8. $2a^3b\sqrt{2b}$
9. $\frac{3\sqrt{2}+6}{3} = \sqrt{2}+2$
10. $n = -5$ or $n = -1$
11. $n = 4$ or $n = -1$
12. $y = 4$ or $y = -4$
13. $n = 6$ or $n = -6$
14. 13 units
15. $y = 4$ or -2
16. $x = 8$
17. discriminant is 1 and equation has 2 real solutions
18. $(0, 4)$
19. $n = -3$ or $n = -4$

20. $n = -\frac{1}{2}$
21. $n = \frac{1}{3}$ or $n = -2$
22. No solutions
23. a.) 6 feet
b.) approximately at .23 and 1.43 seconds
c.) No
d.) approximately 2.47 seconds (and -.81 seconds)
e.) The ball hits the x-axis in two spots since it is a parabola.
The -.81 seconds doesn't make sense because it is a negative time.