

Answer Key

Practice B

1. $7\sqrt{3}$
2. $2\sqrt{15}$
3. $3\sqrt{7}$
4. $96\sqrt{6}$
5. 120
6. $5\sqrt{6}$
7. $\frac{15}{17}$
8. $\frac{7\sqrt{2}}{3}$
9. $\frac{5\sqrt{7}}{2}$
10. -18, 18
11. -9, 9
12. -6, 6
13. -12, 12
14. -6, 6
15. $-2\sqrt{5}, 2\sqrt{5}$
16. $-\sqrt{7}, \sqrt{7}$
17. -1, 1
18. -2, 2
19. -5, -1
20. -2, 6
21. $-\frac{7}{3}, \frac{5}{3}$
22. -1, 4
23. 0, 8
24. -9, 7
25. 2.5 seconds; ≈ 3.54 seconds; no; doubling the height increases the time by the factor $\sqrt{2}$.
26. 1992
27. 7
28. 49 ft
29. 14 ft