

Answer Key

Practice B

1. $(x + 4)^2$ 2. $(x - 5)^2$ 3. $(x - \frac{1}{4})^2$
4. $(2x + 3)^2$ 5. $(3x - 1)^2$ 6. $(3x - \frac{1}{4})^2$
7. 144; $(x + 12)^2$ 8. 225; $(x - 15)^2$
9. $\frac{25}{4}$; $(x + \frac{5}{2})^2$ 10. $\frac{81}{4}$; $(x - \frac{9}{2})^2$
11. 4; $(2x + 2)^2$ 12. 1; $(3x + 1)^2$ 13. -7, 1
14. $7 - 4\sqrt{3}$, $7 + 4\sqrt{3}$ 15. -1, 4
16. $-\frac{9}{2} - \frac{\sqrt{57}}{2}$, $-\frac{9}{2} + \frac{\sqrt{57}}{2}$ 17. -1, 2
18. -4, 1 19. $1 - \sqrt{6}$, $1 + \sqrt{6}$
20. $1 - \sqrt{5}$, $1 + \sqrt{5}$
21. $\frac{1}{2} - \frac{\sqrt{3}}{2}$, $\frac{1}{2} + \frac{\sqrt{3}}{2}$ 22. $2 - \frac{\sqrt{33}}{3}$, $2 + \frac{\sqrt{33}}{3}$
23. -1, 5 24. $-2 - \sqrt{7}$, $-2 + \sqrt{7}$
25. $y = (x - 4)^2 - 5$; (4, -5)
26. $y = 2(x + 1)^2 - 9$; (-1, -9)
27. $y = -3(x - 1)^2 - 5$; (1, -5)
28. 6.275 ft by 1.275 ft
29. 4.490 ft by 10.245 ft
30. $x^2 + (2x + 7)^2 = (44)^2 \Rightarrow$
 $5x^2 + 28x - 1887 = 0$ 31. 16.828, -22.428
32. 33.656 ft