

Answer Key

Practice A

1. $(x + 1)^2$ 2. $(x - 2)^2$ 3. $(x - 8)^2$
4. $(x + \frac{3}{2})^2$ 5. $(x - \frac{1}{2})^2$ 6. $(x + \frac{5}{2})^2$
7. 9; $(x + 3)^2$ 8. 49; $(x - 7)^2$
9. 16; $(x + 4)^2$ 10. $\frac{1}{4}$; $(x - \frac{1}{2})^2$
11. 121; $(x - 11)^2$ 12. 36; $(x + 6)^2$
13. 100; $(x - 10)^2$ 14. $\frac{9}{4}$; $(x + \frac{3}{2})^2$
15. $\frac{49}{4}$; $(x + \frac{7}{2})^2$ 16. $1 - \sqrt{3}, 1 + \sqrt{3}$
17. $2 - \sqrt{5}, 2 + \sqrt{5}$ 18. $3 - \sqrt{7}, 3 + \sqrt{7}$
19. $-6 - \sqrt{33}, -6 + \sqrt{33}$
20. $-1 - \sqrt{3}, -1 + \sqrt{3}$
21. $-4 - \sqrt{17}, -4 + \sqrt{17}$ 22. 1, 15
23. -2, 1 24. $\frac{1}{2} - \frac{\sqrt{5}}{2}, \frac{1}{2} + \frac{\sqrt{5}}{2}$
25. $y = (x + 4)^2 - 11; (-4, -11)$
26. $y = (x - 5)^2 - 18; (5, -18)$
27. $y = (x + 1)^2 - 4; (-1, -4)$
28. 16.675 ft by 10.675 ft
29. 4.782 ft by 8.782 ft 30. 8 ft by 6 ft
31. 3.662 ft by 19.662 ft