

CHAPTER
3

Extra Practice

Skills

- **Lesson 3-1** Identify each number as *rational* or *irrational*.

1. 1.020304... 2. $\sqrt{25}$ 3. $\sqrt{26}$ 4. $5.6366\overline{3}$

- **Lessons 3-2 and 3-3** Use the Pythagorean theorem to find the hypotenuse of the right triangle from the given lengths of the two legs.

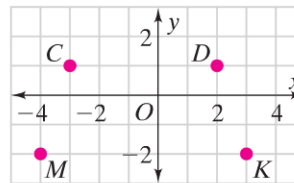
5. 3, 4 6. 10, 24 7. 7, 13 8. 6, 11
9. $\sqrt{2}, \sqrt{7}$ 10. 1.2, 1.6 11. 21, 22 12. 13, 31

Given leg ℓ and hypotenuse h determine the length of the missing leg of the right triangle.

13. $\ell = 7, h = 25$ 14. $\ell = 7.5, h = 12.5$ 15. $\ell = 23, h = 44$ 16. $\ell = 50, h = 76$

- **Lesson 3-4** Name the coordinates of each point in the graph.

17. C 18. D
19. K 20. M

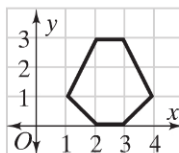


- **Lesson 3-5** Graph each linear equation.

21. $y = 3x + 3$ 22. $y = -2x - 3$ 23. $y = \frac{1}{3}x - \frac{2}{3}$ 24. $y = -\frac{3}{4}x + 1$

- **Lessons 3-6 to 3-8** Copy the figure shown below for Exercises 25–28. Then draw its image after each transformation.

25. translation 3 units right and 1 unit down
26. reflection over the y -axis
27. rotation 270° about the origin



Word Problems

- **Lesson 3-1**

28. **Open-Ended** Name a rational number whose square root is a number between 0 and 1.
29. A square has an area of 240.25 in.^2 . What are the lengths of its sides?