Practice 1-4

Mixed Exercises

If *GJ* = 32, find the value of each of the following.

1. *x*

2. *GH*

3. *HJ*

$$\underset{G}{\bullet} \overset{3x}{\rule{2cm}{0.4pt}} \underset{H}{\bullet} \overset{x + 16}{\rule{3cm}{0.4pt}} \underset{J}{\bullet}$$
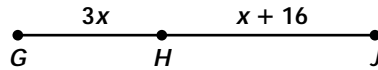
4. Find *PD* if the coordinate of *P* is −7 and the coordinate of *D* is −1.

5. Find *SK* if the coordinate of *S* is 17 and the coordinate of *K* is −5.

6. Find the coordinate of *B* if *AB* = 8 and the coordinate of *A* is −2.

7. Find the coordinate of *X* if *XY* = 1 and the coordinate of *Y* is zero.

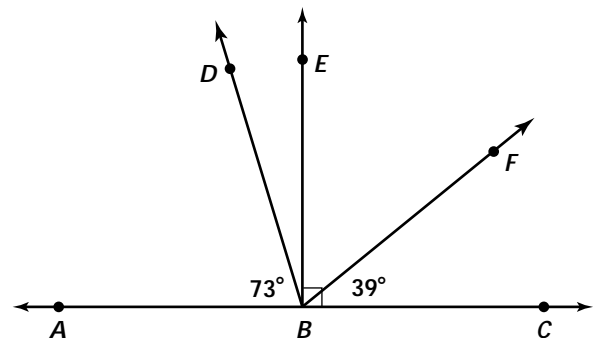**8.** Name the angle in three different ways.
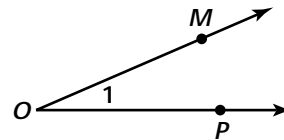
If *AX* = 45, find the value of each of the following.

9. *y*

10. *AQ*

11. *QX*

$$\underset{A}{\bullet} \overset{2y + 1}{\rule{3cm}{0.4pt}} \underset{Q}{\bullet} \overset{y - 1}{\rule{1.5cm}{0.4pt}} \underset{X}{\bullet}$$
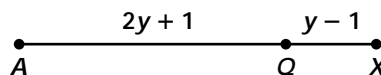
Find the measure of each angle.

12. ∠*EBF*   **13.** ∠*EBA*

14. ∠*DBE*   **15.** ∠*DBC*

16. ∠*ABF*   **17.** ∠*DBF*

18. Name all acute angles in the figure.

19. Name all obtuse angles in the figure.

20. Name all right angles in the figure.

21. If *AC* = 62, find the value of *x*.
Then find *AB* and *BC*.

22. If *AC* = 206, find the value of *x*.
Then find *AB* and *BC*.

$$\underset{A}{\bullet} \overset{3x - 4}{\rule{2.5cm}{0.4pt}} \underset{B}{\bullet} \overset{3x - 4}{\rule{2.5cm}{0.4pt}} \underset{C}{\bullet}$$