GRAPHING FUNCTIONS **Graph the function with the given domain. Then identify the range of the function.**

24. $y = -x + 1$; domain: $-2, -1, 0, 1, 2$

25. $y = 2x - 5$; domain: $-2, -1, 0, 1, 2$

26. $y = -\frac{2}{3}x - 1$; domain: $-6, -3, 0, 3, 6$

27. $y = \frac{1}{2}x + 1$; domain: $-6, -4, -2, 0, 2$

28. **GEOMETRY** Plot the points $W(-4, -2)$, $X(-4, 4)$, $Y(4, 4)$, and $Z(4, -2)$ in a coordinate plane. Connect the points in order. Connect point Z to point W. Identify the resulting figure. Find its perimeter and area.

REASONING **Without plotting the point, tell whether it is in Quadrant I, II, III, or IV. *Explain* your reasoning.**

29. $(4, -11)$ **30.** $(40, -40)$ **31.** $(-18, 15)$ **32.** $(-32, -22)$

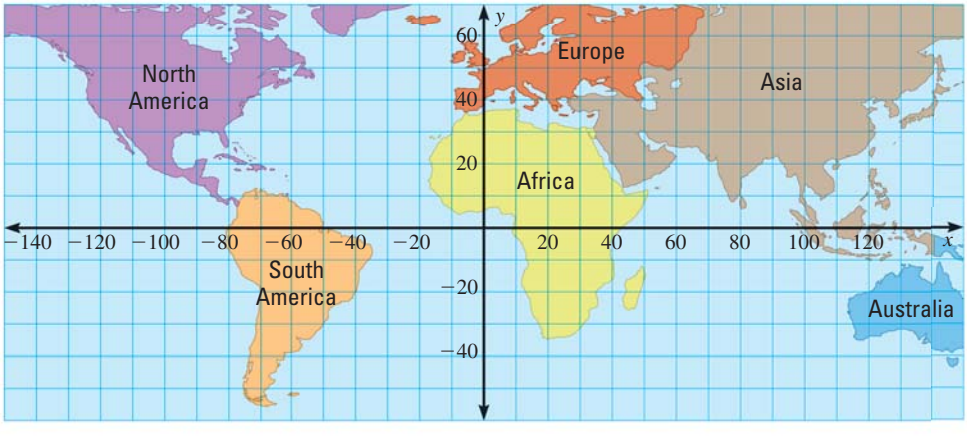
33. **WRITING** *Explain* how can you tell by looking at the coordinates of a point whether the point is on the x-axis or on the y-axis.

34. **REASONING** Plot the point $J(-4, 3)$ in a coordinate plane. Plot three additional points in the same coordinate plane so that each of the four points lies in a different quadrant and the figure formed by connecting the points is a square. *Explain* how you located the points.

35. **CHALLENGE** Suppose the point (a, b) lies in Quadrant IV. *Describe* the location of the following points: (b, a), $(2a, -2b)$, and $(-b, -a)$. *Explain* your reasoning.

PROBLEM SOLVING

36. **ASTRONAUT PHOTOGRAPHY** Astronauts use a coordinate system to describe the locations of objects they photograph from space. The x-axis is the equator, 0° latitude. The y-axis is the prime meridian, 0° longitude. The names and coordinates of some lakes photographed from space are given. Use the map to determine on which continent each lake is located.



a. Lake Kulundinskoye: (80, 53)

b. Lake Champlain: (−73, 45)

c. Lake Van: (43, 39)

d. Lake Viedma: (−73, −50)

e. Lake Saint Clair: (−83, 43)

f. Starnberger Lake: (12, 48)

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