

## Review Key Vocabulary

absolute value, p. A13  
origin, p. A44

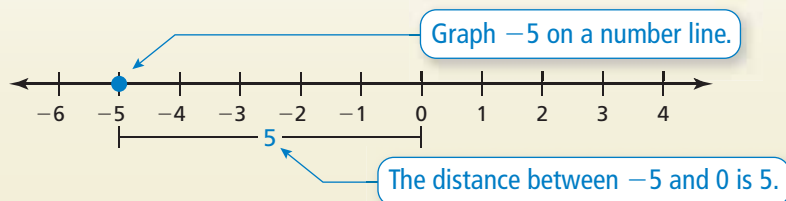
quadrant, p. A44  
x-axis, p. A44

y-axis, p. A44

## Review Examples and Exercises

### B.1 The Number Line (pp. A10–A15)

Find the absolute value of  $-5$ .



So,  $|-5| = 5$ .

### Exercises

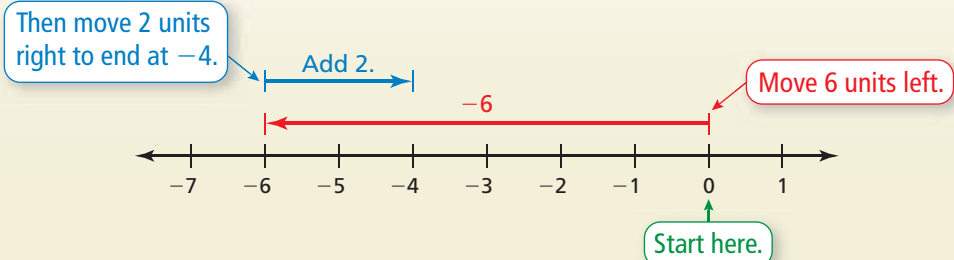
- Which is greater,  $-8$  or  $5$ ?
- Which is greater,  $-3$  or  $-4$ ?

Find the absolute value of the integer.

- $4$
- $-1$
- $12$
- $-8$

### B.2 Number Line Operations (pp. A16–A21)

Use a number line to find  $-6 + 2$ .



So,  $-6 + 2 = -4$ .

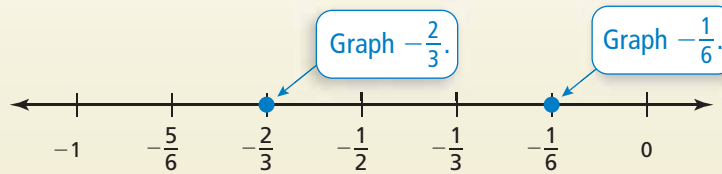
### Exercises

Use a number line to find the sum or difference.

- $-3 + 4$
- $-9 + 2$
- $1 - 5$
- $-5 - 6$

**B.3**
**Fractions on the Number Line** (pp. A22–A27)

Which is greater,  $-\frac{2}{3}$  or  $-\frac{1}{6}$ ?



∴  $-\frac{1}{6}$  is to the right of  $-\frac{2}{3}$ . So,  $-\frac{1}{6}$  is greater.

**Exercises**

Which number is greater? Explain.

11.  $-\frac{1}{4}, -1$

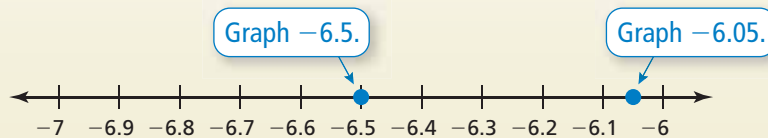
12.  $-\frac{2}{5}, \frac{1}{10}$

13.  $-2\frac{1}{8}, -2\frac{5}{8}$

14.  $-\frac{7}{4}, -\frac{3}{2}$

**B.4**
**Decimals on the Number Line** (pp. A30–A35)

Which is greater,  $-6.05$  or  $-6.5$ ?



∴  $-6.05$  is to the right of  $-6.5$ . So,  $-6.05$  is greater.

**Exercises**

Which number is greater? Explain.

15.  $-0.7, -0.4$

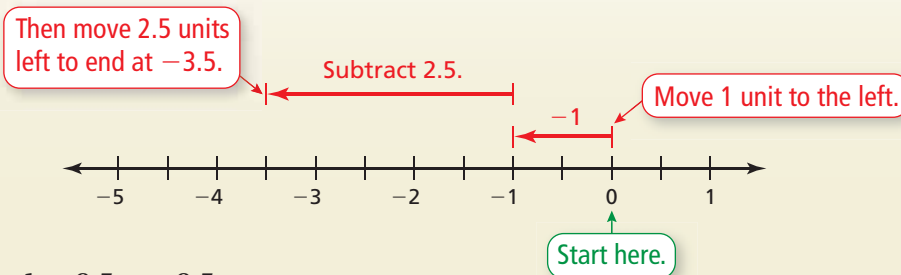
16.  $-0.1, -1$

17.  $1.3, -3.1$

18.  $-5.08, -5.8$

**B.5**
**Fractions and Decimals on the Number Line** (pp. A36–A41)

Use a number line to find  $-1 - 2.5$ .



∴ So,  $-1 - 2.5 = -3.5$ .

## Exercises

Use a number line to find the sum or difference.

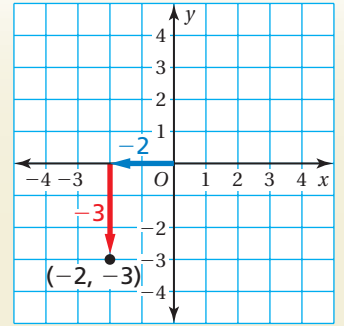
19.  $-2\frac{1}{2} + 1\frac{1}{2}$       20.  $-2 + 4.25$       21.  $-3 - 1\frac{1}{3}$       22.  $0 - 0.3$

## B.6 The Coordinate Plane (pp. A42–A47)

Plot the ordered pair  $(-2, -3)$  in a coordinate plane. Then describe its location.

Start at the origin. Move 2 units left and 3 units down. Then plot the point.

∴ The point is in Quadrant III.



## Exercises

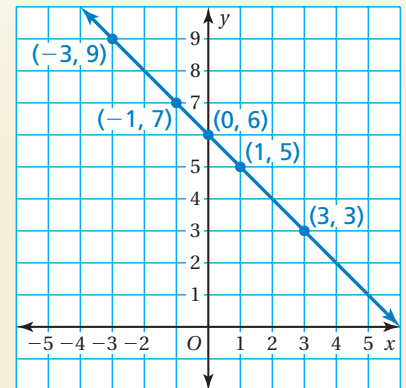
Plot the ordered pair in a coordinate plane. Describe the location of the point.

23.  $W(-1, 3)$       24.  $X(0, -2)$       25.  $Y(2, -5)$       26.  $Z(7, 0)$

## B.7 Graphing in the Coordinate Plane (pp. A48–A53)

Make an input-output table for  $y = 6 - x$ . Use the inputs  $-3, -1, 0, 1,$  and  $3$ . Then draw the graph of the function.

$x$	$6 - x$	$y$	$(x, y)$
$-3$	$6 - (-3)$	9	$(-3, 9)$
$-1$	$6 - (-1)$	7	$(-1, 7)$
0	$6 - 0$	6	$(0, 6)$
1	$6 - 1$	5	$(1, 5)$
3	$6 - 3$	3	$(3, 3)$



## Exercises

Make an input-output table for the function. Use the inputs  $-2, -1, 0, 1,$  and  $2$ . Then draw the graph of the function.

27.  $y = x - 2$       28.  $y = 4 - x$   
 29.  $y = 2x$       30.  $y = -3 - x$