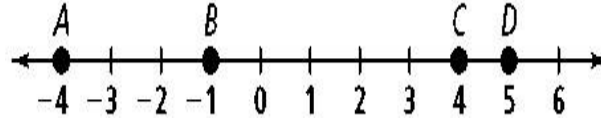


## Practice

# 1-3

### Measuring Segments

In Exercises 1–4, use the figure below. Find the length of each segment.



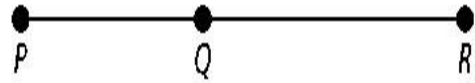
1.  $\overline{AB}$

2.  $\overline{AC}$

3.  $\overline{AD}$

4.  $\overline{CD}$

For Exercises 5–7, use the figure at the right.

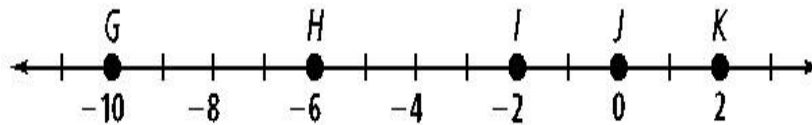


5. If  $PQ = 7$  and  $QR = 10$ , then  $PR =$

6. If  $PR = 25$  and  $PQ = 12$ , then  $QR =$

7. If  $PR = 10$  and  $PQ = 4$ , then  $QR =$

Use the number line below for Exercises 8–10. Tell whether the segments are congruent.

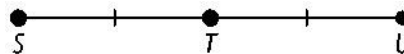


8.  $\overline{GH}$  and  $\overline{HI}$

9.  $\overline{HJ}$  and  $\overline{IK}$

10.  $\overline{HJ}$  and  $\overline{GI}$

**Algebra** Use the figure at the right for Exercises 11 and 12.



**11.** Given:  $ST = 3x + 3$  and  $TU = 2x + 9$ .

**a.** What is the value of  $ST$ ?

**b.** What is the value of  $TU$ ?

**12.** Given:  $ST = x + 3$  and  $TU = 4x - 6$ .

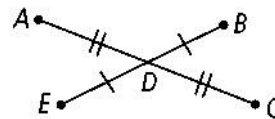
**a.** What is the value of  $ST$ ?

**b.** What is the value of  $SU$ ?

**Algebra** Use the diagram at the right for Exercises 13–14.

**13.**

If  $AD = 20$  and  $AC = 3x + 4$ , find the value of  $x$ . Then find  $AC$  and  $DC$ .



**14.** If  $DC = 6x$  and  $DA = 4x + 18$ , find the value of  $x$ . Then find  $AD$ ,  $DC$ , and  $AC$ .