Classroom Exercises

1. Does the symbol represent a line, segment, ray, or length?

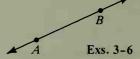
 $a. \overline{PO}$

₽ b. *PO*

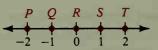
Lc. PO

Lth, d. PQ

- 2. How many endpoints does a segment have? a ray? a line?
- Y 3. Is \overline{AB} the same as \overline{BA} ?
 - 4. Is \overrightarrow{AB} the same as \overrightarrow{BA} ?
- Y 5. Is \overrightarrow{AB} the same as \overrightarrow{BA} ?
- 6. Is AB the same as BA?



- 7. What is the coordinate of P? of R?
- 8. Name the point with coordinate 2.
- 9. Find each distance: a. RS b. RQ c. PT
- 10. Name three segments congruent to \overline{PQ} .
- 11. Name the ray opposite to \overline{SP} .
- 12. Name the midpoint of \overline{PT} .



Exs. 7-14

- 13. a. What number is halfway between 1 and 2? \$\frac{1}{5}\$
 - b. What is the coordinate of the midpoint of ST?
- 14. a. Could you list all the numbers between 1 and 2?
 - b. Is there a point on the number line for every number between 1 and 2?
 - c. Is there any limit to the number of points between S and T?

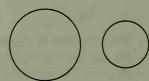
State whether the figures appear to be congruent (that is, appear to have the same size and shape).

15.

16.



17.



18.



19.



20.



- 21. Draw two points P and Q on a sheet of paper. Fold the paper so that fold line f contains both P and Q. Unfold the paper. Now fold so that P falls on Q. Call the second fold g. Lay the paper flat and label the intersection of f and g as point X. How are points P, Q, and X related? Explain.
- 22. If AB = BC, must point B be the midpoint of \overline{AC} ? Explain.

The given numbers are the coordinates of two points on a number line. State the distance between the points.

23. -2 and 6

NP

24. -2 and -6

25. 2 and -6

26. 7 and -1