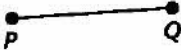



# Practice 11-6

Locus

Draw each locus of points in a plane.

1. 1.5 cm from point  $T$       $\bullet T$

2. 1 in. from  $\overline{PQ}$      

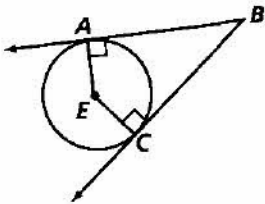
3. equidistant from the endpoints of  $\overline{AB}$      

Draw the locus of points in a plane that satisfy the given conditions.

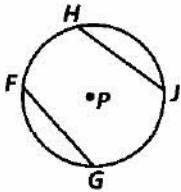
4. 0.5 in. from  $\overline{RS}$  and 0.75 in. from  $S$ , where  $RS = 2.5$  in.

5. equidistant from points  $X$  and  $Y$  and on a circle with center at point  $X$  and radius  $= \frac{1}{2}XY$

6. equidistant from the sides of  $\angle ABC$  and on  $\odot E$



7. equidistant from both points  $F$  and  $G$  and points  $H$  and  $J$



Describe each locus.

8. the set of points in a plane equidistant from two parallel lines
9. the set of points in space a given distance from a point
10. the set of points in a plane less than 1 in. from a given point

Sketch and label each locus.

11. all points in a plane 2 cm from a point  $Q$
12. all points in a plane 0.75 in. from a line  $\overleftrightarrow{RS}$
13. all points in space 0.5 cm from a segment  $\overline{TU}$
14. all points in a plane 6 mm from a circle with radius 5 mm

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