

Practice 12-6

Locus: A Set of Points

Draw each locus of points in a plane.

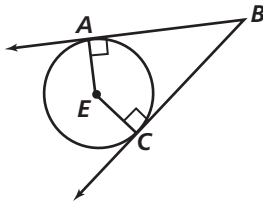
1. 1.5 cm from point T $\bullet T$

2. 1 in. from \overline{PQ} 

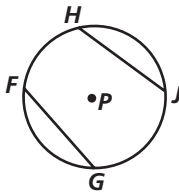
3. equidistant from the endpoints of \overline{AB} 

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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