Five Fundamental Loci Do Work on Separate Sheet

 What is the locus of the outer end of the hour hand of a clock during a 12-hour period? 2) What is the locus of points equidistant from two parallel lines 8 meters apart?

- 3) What is the locus of points 5 yards away from the centerline on a soccer field?
- What is the locus of points equidistant from two circles that have the same center and radii of 7 cm and 11 cm?
- 4) A dime is rolled along a horizontal line so that the dime always touches the line. What is the locus of the center of the dime?
- 5) What is the locus of points that are 10 centimeters from a given point?

- 4) What is the locus of points 3 inches from a given line?
- 8) What is the locus of the center of a penny that is rolling around a quarter if the edges of the two coins are always touching each other?
- 9) What is the locus of points in the exterior of a circle whose radius measures 3 inches if the points are 2 inches from the circle?
- 10) What is the locus of points equidistant from sides AB and CD in rectangle ABCD?

11) The locus of points at a given distance from a line is:

12) What is the locus of points in the interior of square ABCD and equidistant from \overline{AB} and \overline{BC} ?

1) point D2) diagonal \overline{BD} 3) diagonal \overline{AC} 4) sides \overline{AD} and \overline{DC}

13) If a side of square ABCD has length 10 centimeters, which points are 10 centimeters from vertex A?

1) B, C 2) C, D 3) B, D 4) B, C, D

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