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## Practice B

For use with pages 642-648

## Match the sketch with the statement. Then describe the locus.

1. All points in a plane than are less than 1.2 centimeters from a given line
2. All points in a plane that are 1.2 centimeters or less from a given line
3. All points in a plane than are more than 1.2 centimeters from a given line
4. All points in a plane that are more than 0.8 centimeters and less than 1.2 centimeters from a given line
B.

D.


## Draw the figure. Then sketch and describe the locus points on the paper that satisfy the given conditions.

5. Obtuse $\angle A B C$, the locus points on or in the interior of the angle and equidistant from the rays that form the angle
6. Square with side length 5 , the locus points that are equidistant from the vertices of the square
7. Parallel lines $m$ and $l$, the locus of the points that are equidistant from $m$ and $l$
8. Circle of radius 2 , the locus of points that are the midpoints of all radii of the circle

## Use the graph at the right to write the equation(s) for the locus of points in the coordinate plane that satisfy the given condition.

9. Equidistant from $R$ and $S$
10. 2 units from $R$
11. Equidistant from the $x$ - and $y$-axes

12. Ceiling Fan An electrician is to install a ceiling fan in a rectangular room. It must be placed at a position which is equidistant from each of the four corners of the ceiling. Draw a diagram and describe the locus.
13. Flowers A gardner wishes to plant rows of flowers in a park. The flowers are to be equidistant from sidewalks that intersect as shown. Show the location of the flowers. Describe the locus of the flowers.

