1. What is the locus of points at a given distance from a line?
2. 1 point
3. 2 points
4. 1 circle
5. 2 parallel lines
6. The equation of the locus of the points 5 units from the origin is
7. $x^{2}+y^{2}=5$
8. $x^{2}+y^{2}=25$
9. $x=5$
10. $y=5$
11. If point p is on line l , what is the total number of points 3 centimeters from point p and 4 centimeters from line 1 ?
12. 1
13. 2
14. 0
15. 4
16. The number of points equidistant from two parallel lines and also equidistant from two points on one of the given lines is exactly
17. 1
18. 2
19. 3
20. 4
21. The distance between two parallel lines L and M is 12 units. Point A is on line L . How many points are equidistant from lines $L$ and $M$ and 8 units from point $A$ ?
1.1
22. 2
23. 3
24. 4
25. In the coordinate plane, what is the total number of points 5 units from the origin and equidistant from both the x and y -axes/
26. 1
27. 2
28. 0
29. 4
30. Which equation represents the locus of points equidistant from points $(2,3)$ and $(2,9)$ ?
31. $y=6$
32. $y=-6$
33. $x=6$
34. $x=-6$
35. What is the total number of points in a plane that are 3 units from the $y$-axis and also 4 units from the origin?
1.0
36. 2
37. 3
38. 4
39. What is the greatest number of points of intersection of a triangle and a circle?
1.6
40. 2
41. 3
42. 4
43. What is the total number of points equidistant from two intersecting straight roads and also 300 feet from the traffic light at the center of the intersection?
44. 1
45. 2
46. 3
47. 4
48. The locus of points equidistant from two sides of an acute scalene triangle is
49. an angle bisector
50. a median
51. an altitude
52. the third side

53. If point P lies on line 1 , which diagram represents the locus of points 3 centimeters from point P ?
54. 


2.
$\qquad$
$\qquad$
3.

4.

14. A treasure map shows a treasure hidden in a park near a tree and a statue. The map indicates that the tree and the statue are 10 feet apart. The treasure is buried 7 feet from the base of the tree and also 5 feet from the base of the statue. How many places are possible locations for the treasure to be buried? Draw a diagram of the treasure map, and indicate with an $X$ each possible location of the treasure.

