Topic : <u>Equidistant from Two Points - Worksheet 1</u>

1. Two trees are 10 meters apart. A rope is to be tied such that the distance from any point on the rope to each tree is always the same distance. Describe where the rope should be tied.

2. Describe the locus of points equidistant from the points (3,-4) and (3, 6) .

3. What is the equation of the locus of points equidistant from the points (4, 2) and (-6, 4)?

4. Describe the locus of points equidistant from the points (1,-2) and (1, 10) .

5. What is the equation of the locus of points equidistant from the points (-3,-8) and (-3, 2)?

6. There are two trees in a garden. Tom moves so that he is always equidistant from both trees. Describe his path.

7. Describe the locus of points equidistant from the points (2,-4) and (-4, -4)

8. What is the equation of the locus of points equidistant from the points (6, 10) and (-2, 10)?

9. There are two cars on a road. Denny walks so that he is always equidistant from both vans. Describe his path.

10. What is the equation of the locus of points equidistant from the points (3, -2) and (-11, -2)?

Topic : <u>Equidistant from Two Points - Worksheet 2</u>

1.   Two buildings are 16 meters apart. A net is to be tied such that the distance from any point on the net to each building is always the same distance. Describe where the net should be tied.

2.   Describe the locus of points equidistant from the points (3,-4) and (3, 6).

3.   What is the equation of the locus of points equidistant from the points (3, 2) and (-5, 3)?

4.   Describe the locus of points equidistant from the points (-2, 6) and (-4, 6).

5.   What is the equation of the locus of points equidistant from the points (-2,-7) and (-2, 4)?

6.   There are two houses on a road. Jenny moves so that he is always equidistant from both houses. Describe his path.

7.   Describe the locus of points equidistant from the points (5,-1) and (5, 5).

8.   What is the equation of the locus of points equidistant from the points (5, 9) and (-4, 9)?

9.   There are two scooters on a road. Jennie walks so that he is always equidistant from both scooters. Describe his path.

10.   What is the equation of the locus of points equidistant from the points (5, - 4) and (-9, -4)?

Name: _____   Date _____

Topic : <u>Equidistant from Two Points - Worksheet 3</u>

1. Two pillars are 20 meters apart. A pipe is to be tied such that the distance from any point on the pipe to each pillar is always the same distance. Describe where the pipe should be tied.

2. Describe the locus of points equidistant from the points (-2,4) and (8, 4) .

3. What is the equation of the locus of points equidistant from the points (4, 3) and (-6, 4)?

4. Describe the locus of points equidistant from the points (3,-4) and (3, 6).

5. What is the equation of the locus of points equidistant from the points (-5,-10) and (-5, 3)?

6. There are two tables in a room. John moves so that he is always equidistant from both tables. Describe his path.

7. Describe the locus of points equidistant from the points (2,-2) and (2, 4).

8. What is the equation of the locus of points equidistant from the points (4, 8) and (-3, 8)?

9. There are two bikes on a road. Kenny walks so that he is always equidistant from both bikes. Describe his path.

10. What is the equation of the locus of points equidistant from the points (6, -5) and (-8, -5)?

Name: _____   Date _____

1. Two plants are 14 meters apart. A rope is to be tied such that the distance from any point on the rope to each plant is always the same distance. Describe where the rope should be tied.

2. Describe the locus of points equidistant from the points (8,-2) and (8, 4).

3. What is the equation of the locus of points equidistant from the points (5, 4) and (-7, 5)?

4. Describe the locus of points equidistant from the points (-4, 5) and (-4, 7).

5. What is the equation of the locus of points equidistant from the points (-3,-6) and (-3, 2)?

6. There are two balls in a garden. John moves so that he is always equidistant from both balls. Describe his path.

7. Describe the locus of points equidistant from the points (2,-4) and (6, -4).

8. What is the equation of the locus of points equidistant from the points (3, 5) and (-4, 5)?

9. There are two cycles on a road. Kenny walks so that he is always equidistant from both cycles. Describe his path.

10. What is the equation of the locus of points equidistant from the points (5, -3) and (-7, -3)?

Name: _____   Date _____

Topic : <u>Equidistant from Two Points - Worksheet 5</u>

1. Two computers are 30 meters apart. A wire is to be tied such that the distance from any point on the wire to each computer is always the same distance. Describe where the wire should be tied.

2. Describe the locus of points equidistant from the points (8,-3) and (6, -3) .

3. What is the equation of the locus of points equidistant from the points (6, 3) and (-5, 2)?

4. Describe the locus of points equidistant from the points (4,-8) and (4, -4).

5. What is the equation of the locus of points equidistant from the points (-4,-7) and (-4, 5)?

6. There are two bags in a room. John moves so that he is always equidistant from both bags. Describe his path.

7. Describe the locus of points equidistant from the points (2,-4) and (6, -4) .

8. What is the equation of the locus of points equidistant from the points (2, 4) and (-3, 4)?

9. There are two ambulances on a road. Kenny walks so that he is always equidistant from both ambulances. Describe his path.

10. What is the equation of the locus of points equidistant from the points (6, -5) and (-8, -5)?