Geometry Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Round Table – Circle Equation – Given Endpoints of Diameter.

Complete only one step of each of the problems before rotating the paper - When receiving a paper from a classmate, check the previous step before beginning the next step.

Task 1: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(1, 3) and (5, -7).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Task 2: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(4, -1) and (6, 5).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Geometry Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Round Table – Circle Equation – Given Endpoints of Diameter.

Complete only one step of each of the problems before rotating the paper - When receiving a paper from a classmate, check the previous step before beginning the next step.

Task 1: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(-17, 9) and (-19,-9).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Task 2: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(-3, 11) and (3, -13).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Geometry Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Round Table – Circle Equation – Given Endpoints of Diameter.

Complete only one step of each of the problems before rotating the paper - When receiving a paper from a classmate, check the previous step before beginning the next step.

Task 1: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(18, -13) and (4, -3).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Task 2: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(-5, 6) and (1,-2).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Geometry Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Round Table – Circle Equation – Given Endpoints of Diameter.

Complete only one step of each of the problems before rotating the paper - When receiving a paper from a classmate, check the previous step before beginning the next step.

Task 1: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(6, 7) and (2, -3).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Task 2: Write an equation of the circle given the endpoints of a line segment that is a diameter of the circle

(-2, 4) and (4, 2).

Step 1 – Plot the points

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 2 – Find the midpoint of the given line segment – plot the midpoint above.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 3 – Find the distance of the radius (length between the midpoint and one of its endpoints.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4 – Write the equation of the circle with the center from Step 2 and the radius from step 3.

Check \_\_\_\_\_\_\_\_\_\_\_\_\_