Answer on Question #42718 – Math - Geometry

Circle B has a center of (-1, 5) and a radius of 4. Circle D has a center of (7, 4) and a radius of 2. Prove that the two circles are similar.

Solution:

For example,signs of similarity of triangles :

1. If three sides of one triangle are proportional to three sides of the second triangle, then the triangles are similar.

2. If two sides of one triangle are proportional to two sides of the second triangle and the angles between the sides are equal, then the triangles are similar.

3. If two angles of one triangle are equal to two angles of the second triangle, then the triangles are equal.

4. If two sides of one triangle are proportional to two sides of the triangle and the second largest of them opposite corners of one triangle is equal to the corresponding angle of a second triangle, then the triangles are similar.

To talk about the similarities, we compare, for example, the relation of the parties.

But the circle is the only characteristic Radis and changing the coordinates of the center and radius of the circle, the circle will still be transferred in a circle.

Ie in this case to talk about the similarity of two circles are not appropriate.

Circle will always be around if we slightly change the radius and the coordinates of the center.