

Any four points

For any four different points, is there a point that is the same distance from each of them?

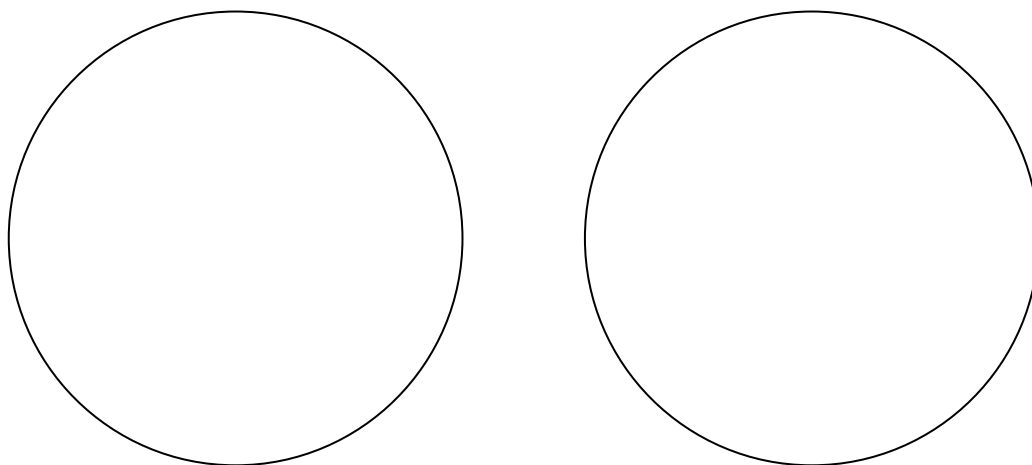
If you think this is true, justify it. If not, find four different points for which the question is not true, then justify that.

What if the four points are on the corners of a rectangle?

What if the four points are on the corners of a parallelogram?

A cyclic quadrilateral is a quadrilateral where all four corners are on the circumference of a circle.

Sketch two different cyclic quadrilaterals.



What rhombuses are cyclic quadrilaterals?

Can you suggest a way to find out when a quadrilateral is cyclic? Can you prove it?
