Question

As we know all triangles are cyclic, i.e. every triangle has a circumscribed circle. And in our case the triangle ABC has a right angle $\angle B = 90^{\circ}$. So, we can say that chord AC is a diameter of the circumscribed circle, because angle $\angle B = 90^{\circ}$. In this case distance from point O, which is the midpoint of the chord AC to every vertex of the triangle ABC are equal. In other words OA = AB = OC = R, where R is the radius of the circumscribed circle. Proved.

<u>Answer:</u> Proved: OA = AB = OC = R, where R is the radius of the circumscribed circle.