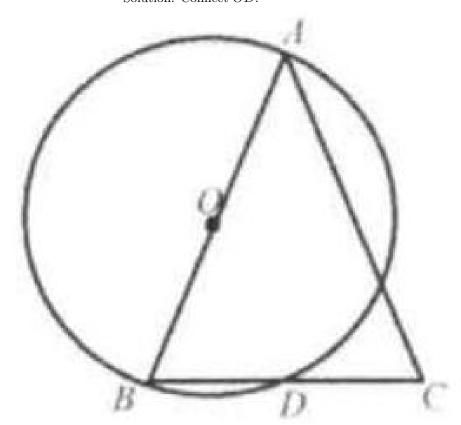
Example 1

ABC is an isosceles triangle with AB=AC. Circle O is drawn using AB as the diameter to intersect BC at D. Show that BD=DC. Solution: Connect OD.



Since OB = OD (both are radius), $\angle OBD = \angle ODB$. Since $AB = AC, \angle B = \angle C$. So $\angle ACB = \angle ODB$. Thus AC//OD. Since BO = OA, BD = DC.

