



1. In Fig. 1.1, a circle touches all the four sides of a quadrilateral $ABCD$ whose sides are $AB = 6$, $BC = 9$ and $CD = 8$ cm. Find the length of side AD .

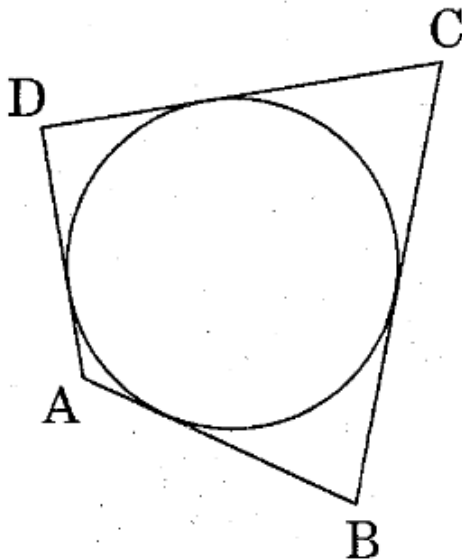


Fig. 1.1

2. Find an A.P. whose fourth term is 9 and the sum of its sixth term and thirteenth term is 40.