lopio: Circle (CLASS-9#)

P

Theorem The chards of a circle which are equidistant from the centre are equal.

Givan: OM = ON

To Prove that: - chord PB = chord RS

Construction: > Join OP and OR

Pyroof: -> in & PMO and & RNO

OM = ON Griven

OP = OR gradii of a circle

L PMO = L RNO = 90° (each)

Fhen 4 PMO = ARNO by RHS congruency rule. NOW PM = RN GCPCT -0

We know that PM = 12 PQ and RN= 12 RS - 1  $\frac{1}{100} \frac{1}{2000} \frac{1}{200} \frac{1}{200} \frac{1}{200} \frac{1}{200} \frac{1}{200} \frac{1}{200} \frac{1}{200} \frac{1}{200} \frac{1}{2000} \frac{1}{20$ **SUSHEEL SIR MATHS** 

Q 2