01.08.2023 - Cash Award Rider - Third Prize Winner Mr.Hara Gopal's Solution





 $\angle R + \angle O = \beta + 180 - \beta$

Which means one pair & adjacent angles are supplementary and

RO || SM [As SM || CR] & opposite angles are equal.

 \Rightarrow ROSM is a parallelogram

And OS = RM and they are parallel

But OS=PT [Proved from (7)]

 \therefore RM = PT

----- Hence Proved.