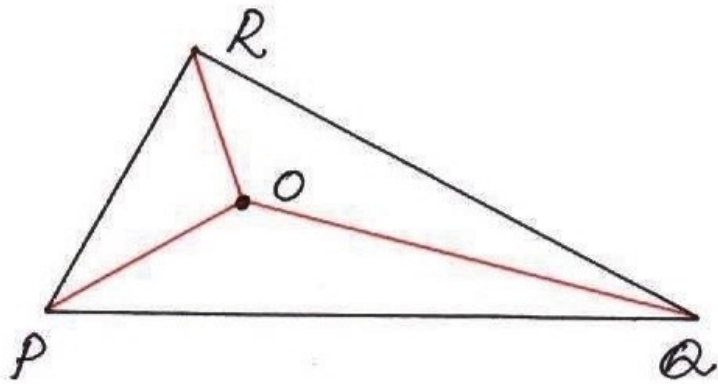


2



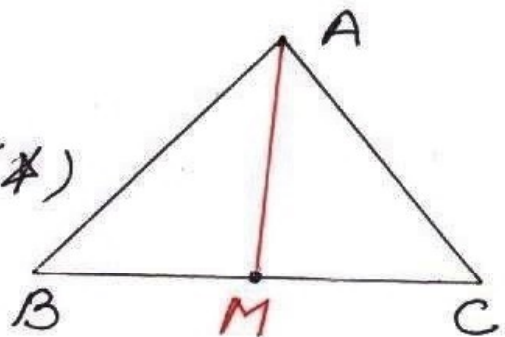
(i) $OP + OQ > PQ$ yes (*)

(ii) $OQ + OR > QR$ yes (*)

(iii) $OR + OP > PR$ yes (*)

* Sum of any 2 sides of Δ is greater than the third side.

3 (i) In ΔABM
 $AB + BM > AM \dots$ (i) (*)



In ΔACM
 $MC + AC > AM \dots$ (ii) (*)

(i) + (ii)

$AM + (BM + MC) + AC > 2AM$

$AM + BC + AC > 2AM$