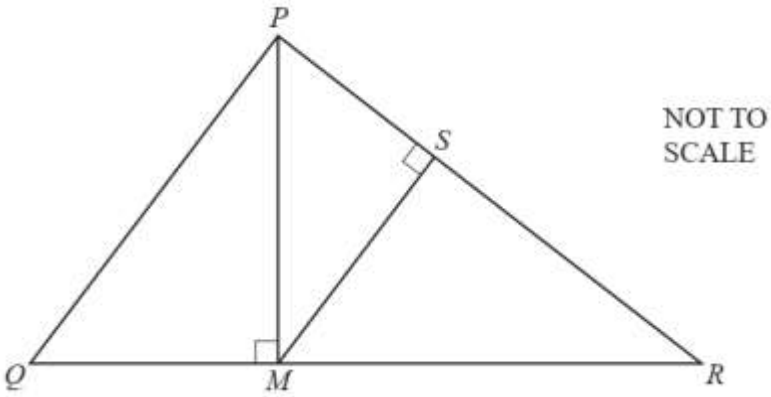
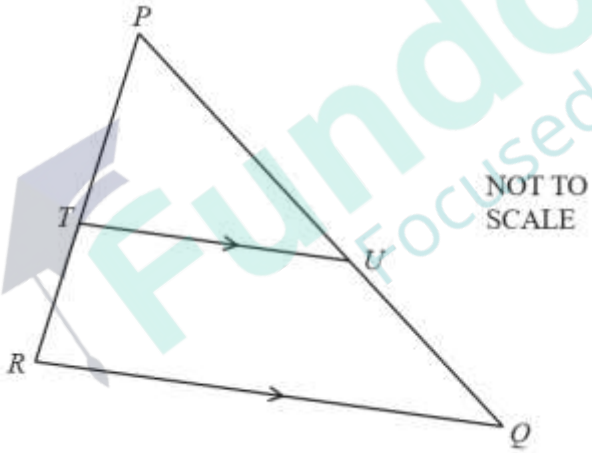


1. In triangle PQR, M lies on QR and S lies on PR.



Explain, giving reasons, why triangle PMR is similar to triangle MSR. [3]
0580/42/M/J/22 Q9(a)

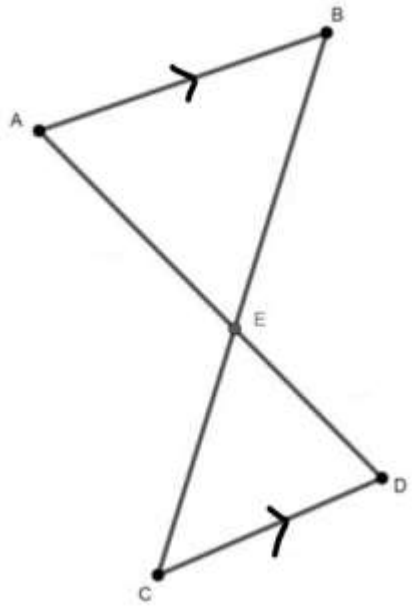
2. PQR is a triangle.



T is a point on PR and U is a point on PQ. RQ is parallel to TU.
Explain why triangle PQR is similar to triangle PUT.
Give a reason for each statement you make. [3]
0580/43/O/N/20 Q5(b)(i)

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3. In the figure side AB is parallel to CD.



Explain why triangle ABE is similar to triangle DCE.
Give a reason for each statement you make. [3]

Answers

1) $PMR = MSR$ = right angle [s] or 90° $PRM = MRS$ same angle AAA
2) Angle *PTU* = angle *PRQ* corresponding Angle *PUT* = angle *PQR* corresponding Angle *RPQ* is common oe Corresponding angles are equal oe AAA
3) Angle *AEB* = angle *DEC* vertically opposite angles Angle *EAB* = angle *EDC* alternate angles Angle *EBA=angle ECD* alternate angles AAA

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