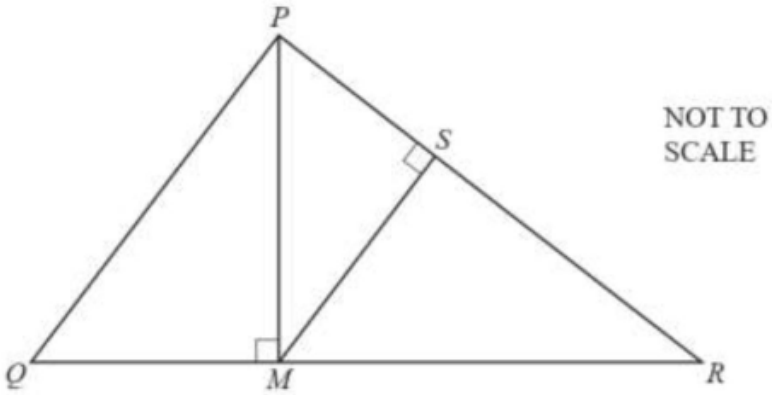
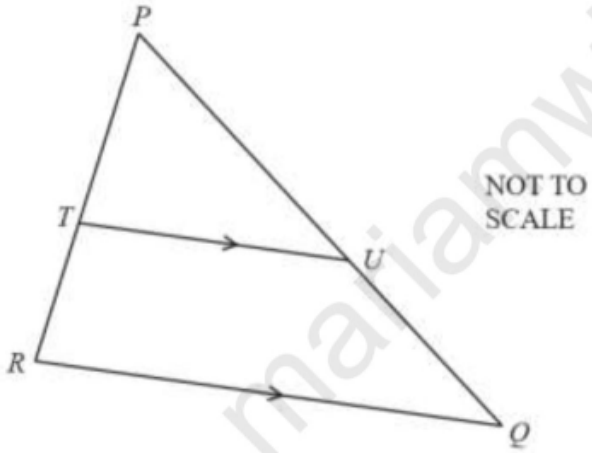
1. In triangle PQR, M lies on QR and S lies on PR.



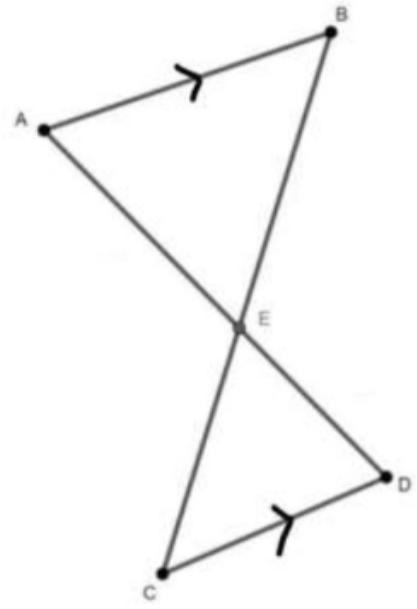
Explain, giving reasons, why triangle PMR is similar to triangle MSR. [3]
0580/42/M/J/22 Q9(a)

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)

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