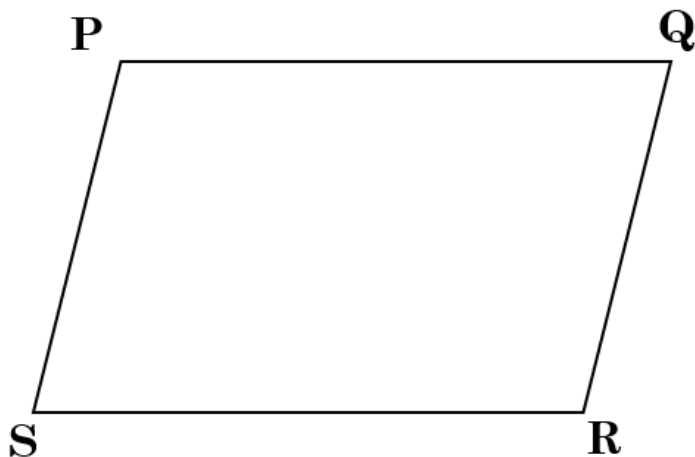Q1. PQRS is a parallelogram.

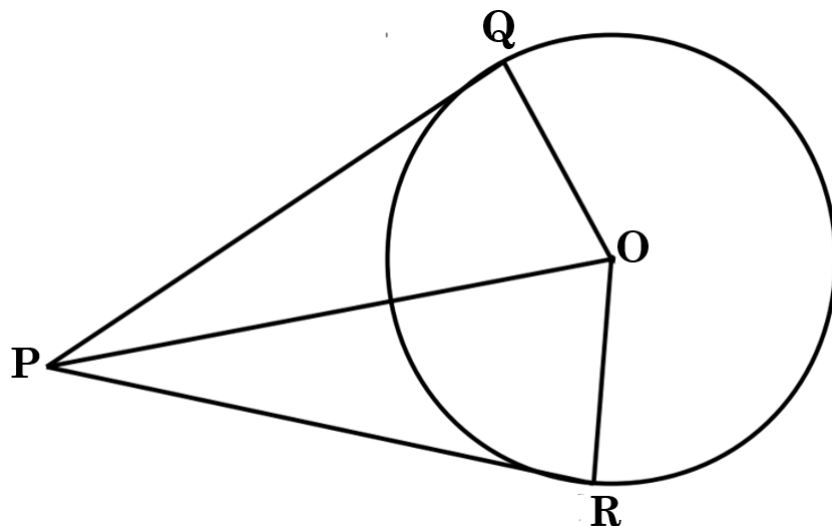
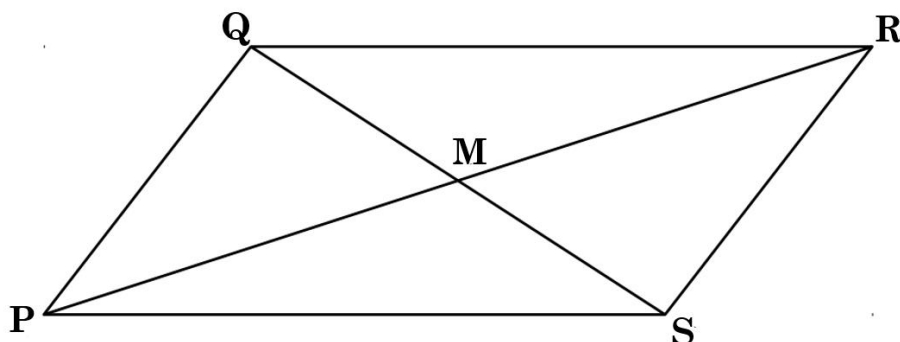Prove that triangle PQR is congruent to triangle PSR.

Answer:_____

(3 marks)

Q2. PQ and PR are tangents to the circle having centre O shown.
Prove that triangle POR is congruent to triangle POQ.

Answer:_____

(4 marks)

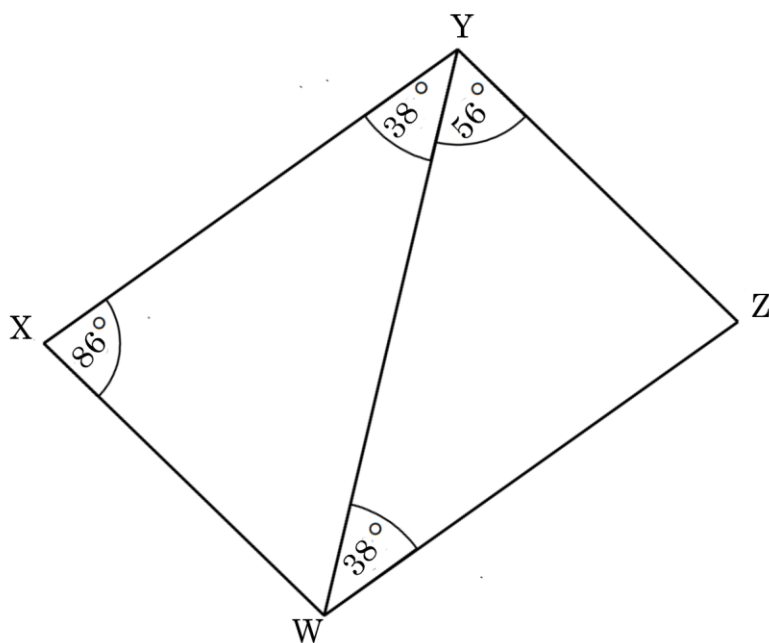Q3. PQRS is a parallelogram, where M is the point where the diagonals intersect.

Prove that triangle QMR is congruent to triangle PMS.

Answer:_____

(3 marks)
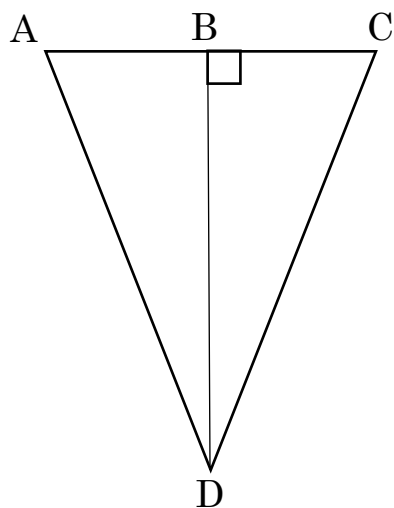
Q4. Prove that triangle WXY is congruent to triangle WYZ.

Answer:_____

(3 marks)

Q5. ACD is an isosceles triangle.
Prove that triangle ABD is congruent to triangle BCD.

Q6. Triangle A has angles, 41, 76 and 63 degrees.
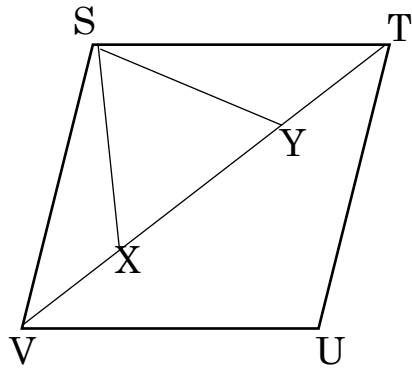
Triangle B has angles, 41, 76 and 63 degrees.

Explain why triangles A and B are not necessarily congruent.

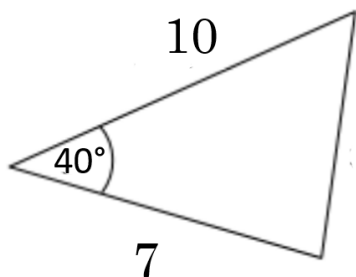Answer:_____

(2 marks)

Q7. ABCD is a rhombus, and VX = TY.

Prove that triangle SVX is congruent to triangle STY.

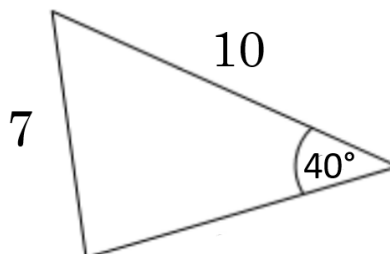Q8. Identify which triangles are congruent to each other. Explain your reasoning carefully.

A
10
40°
7

B
10
7
40°
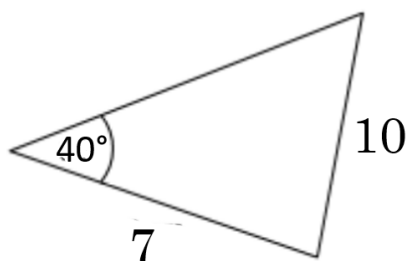
C
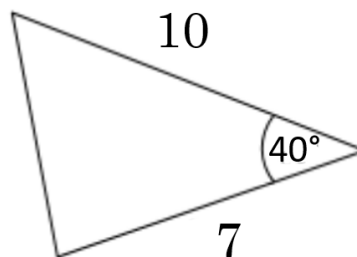40°
10
7

D
10
40°
7

Answer:_____

(2 marks)

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