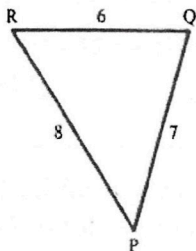
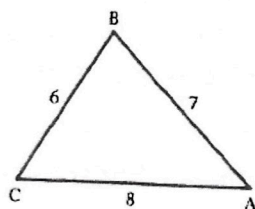


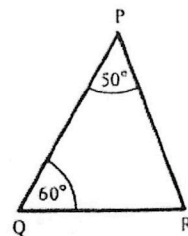
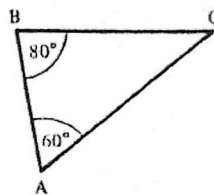
Revision Work 3

State whether the following pairs of triangles are congruent or not.
Give reasons for your answers. All lengths are in cm.

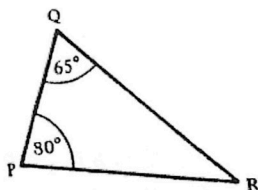
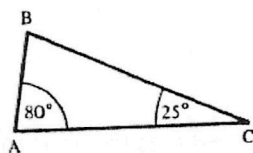
1.



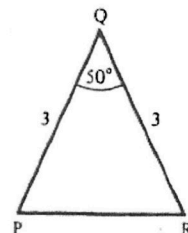
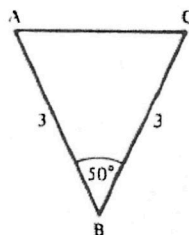
2.



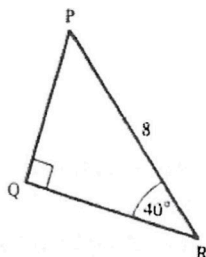
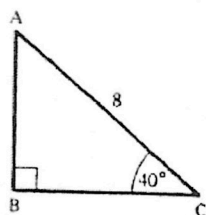
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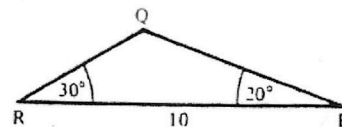
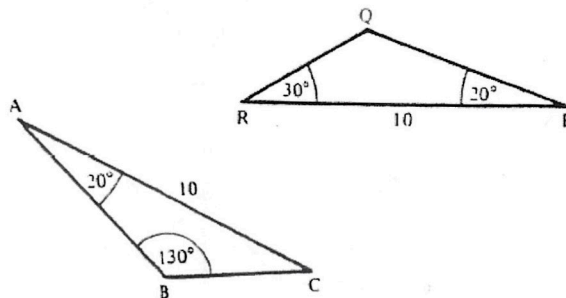
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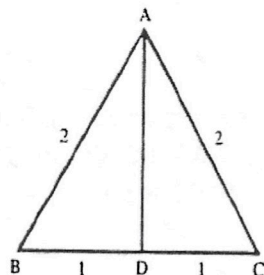
5.



6.

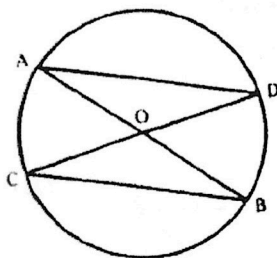


7.



Are $\triangle ABD$ and $\triangle ACD$ congruent?

8.

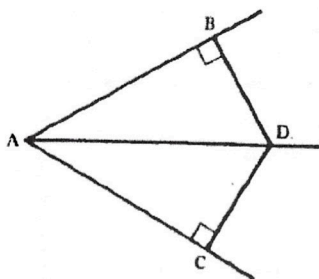


AB and CD are diameters of the circle and O is the centre.

Prove that $\triangle AOD$ and $\triangle COB$ are congruent.

Hence prove that $AD = BC$.

9.

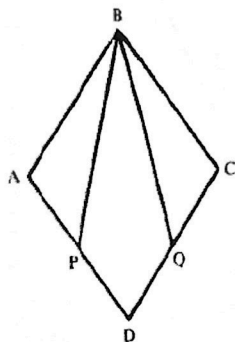


AD bisects $\angle BAC$, DB is perpendicular to AB and DC is perpendicular to AC.

Prove that $\triangle ABD$ and $\triangle ACD$ are congruent.

Hence prove that $AB = AC$.

10.



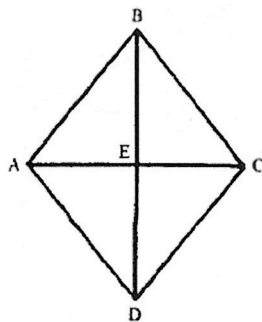
ABCD is a rhombus.

P is the midpoint of AD and Q is the midpoint of CD.

a) Prove that $BP = BQ$.

b) Prove that $\angle APB = \angle CQB$.

11.

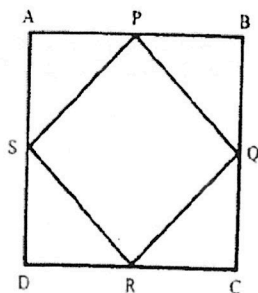


ABCD is a rhombus.

Prove that $\triangle ABE$ and $\triangle CBE$ are congruent.

What can you say about $\angle AEB$ and $\angle BEC$?

12.



ABCD is a square and P, Q, R and S are the midpoints of AB, BC, CD and DA.

Prove that PQRS is a square.