Provincial Education Department Sabaragamuwa-Week School

Subject - Mathematics

Week- 30

Grade 10

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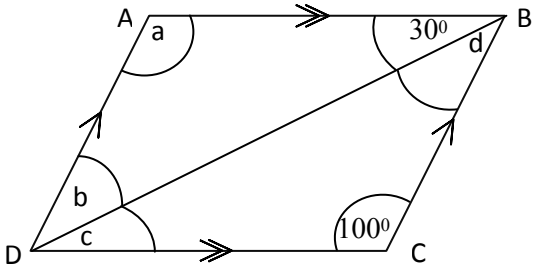
Second Term Revision Exercise 2

Parallelograms

1.Find the values of the angles a,b,c and d in the following parallelogram.

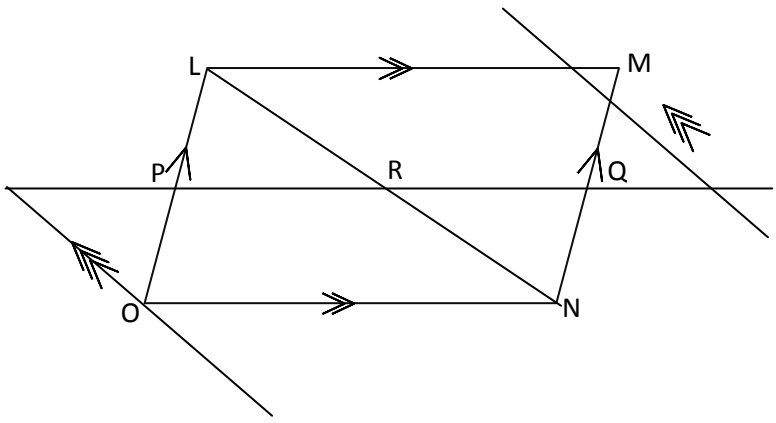


2. .PQRS is a parallelogram.X,Y points are situated on the diagonal PR so that PX=XY=YR. Draw a diagram using the given information,

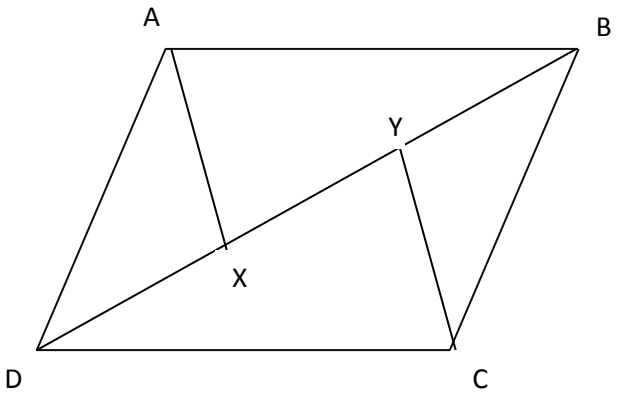
I. Prove that QX=SY

II.Prove that QX//SY .

3. According to the information given in the diagram prove that midpoint of the PQ is R.



4. In a parallelogram ABCD the points X,Y are marked on BD so that DX=BY.Using the features of a parallelogram and marking the given data in the diagram show that AXCY is a parallelogram.



5. In the parallelogram ABCD the line CA is extended to L so that CA=AL.The extended lines CD and LB meet at M.Prove that ALBD is a parallelogram.If ALBD is a rhombus write the relationship of the sides of the rhombus.