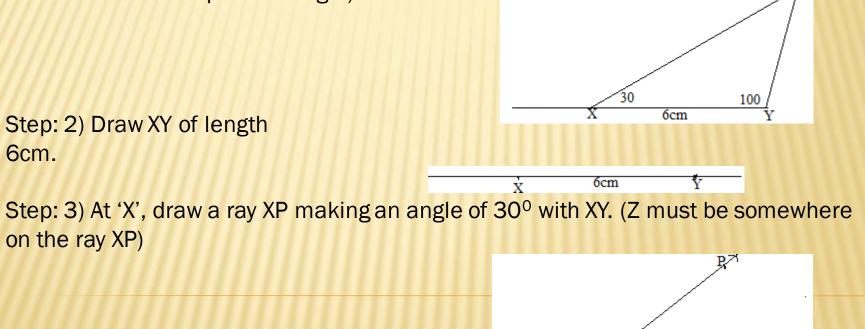
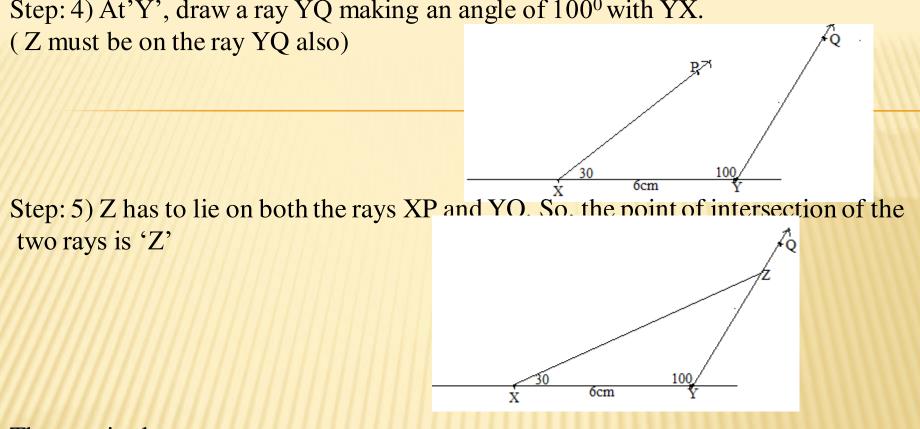
III) CONSTRUCTION OF A TRIANGLE WHEN THE MEASURE OF TWO OF ITS ANGLES AND THE LENGTH OF THE SIDE INCLUDED BETWEEN THEM IS GIVEN(ASA CRITERION)

Example: Construct a triangle XYZ, if it is given that XY=6cm m ZXY=30^oand m XYZ=100^o

Step:1) Draw a rough sketch with the given measurements (to decide how to proceed to the construction of the required triangle)



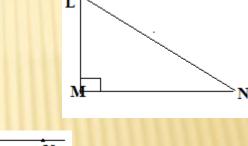
бсm



The required ΔXYZ is formed.

IV) CONSTRUCTING A RIGHT ANGLED TRIANGLE WHEN THE LENGTH OF ONE LEG AND ITS HYPOTENUSE ARE GIVEN (RHS CRITERION)

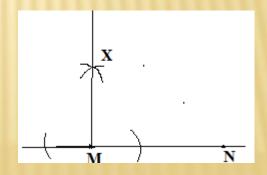
Example: Construct \triangle LMN, right angled at M, given that LN=5cm and MN=3cm Step: 1) Draw a rough sketch with the given measurements (to decide how to proceed to the construction of the required triangle)



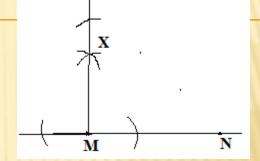
Step:2) Draw MN of length 3cm



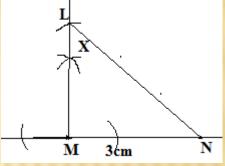
Step: 3) At 'M', draw MX \perp MN. (L should be somewhere on this perpendicular)



Step: 4) With 'N' as centre, draw an arc of radius 5cm.(L must be on this arc, since it is at a distance of 5cm from N)



Step: 5) L has to be on the perpendicular line MX as well as on the arc drawn with centre N. Therefore, L is the meeting point of these two.



The ΔLMN required is formed.

END OF MODULE-4



THANK YOU

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