Exercise 12A

Question 11:

Steps of Construction :

(i) Draw any line XY.

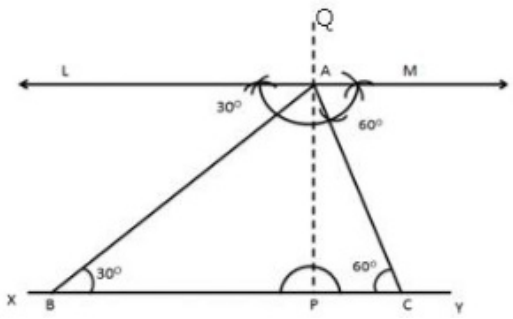
(ii) Take any point P on XY and draw PQ $\perp$ XY.

(iii) Along PQ, set off PA=4.8 cm.

(iv) Through A, draw LM || XY.

(v) Construct $\angle LAB = 30^0$ and $\angle MAC = 60^0$ meeting XY at B and C respectively .

$\therefore$ $\triangle ABC$ is the required triangle.



Question 12:

Steps of Construction :

(i) Draw a line segment AB=12 cm.

(ii) Draw a ray AX, making an acute angle with AB and drawn in the downward direction.

(iii) From A set off (3+2+4) = 9 equal distances along AX.

(iv) Mark points L, M, N on AX such as that AL =3 units, LM =2 units and MN =4 units.

(v) Join NB.

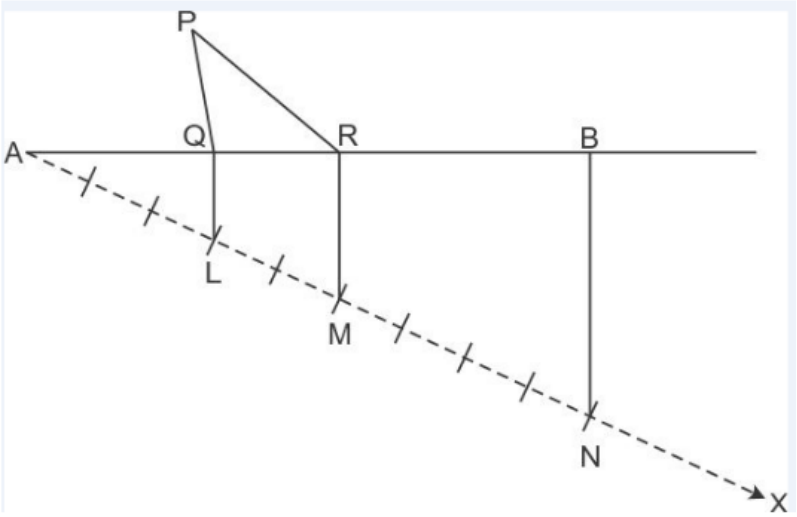
(vi) Through L and M, draw LQ || NB and MR || NB cutting AB at Q and R respectively.

(vii) With Q as centre and radius AQ, draw an arc.

(viii) With R as centre and radius RB, draw another arc, cutting the previous arc at P.

(ix) Join PQ and PR.

∴ △PQR is the required triangle.



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