

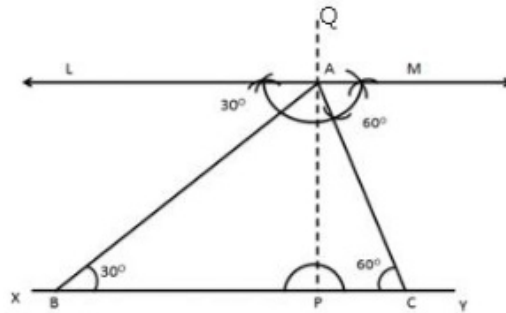


Exercise 12A

Question 11:

Steps of Construction :

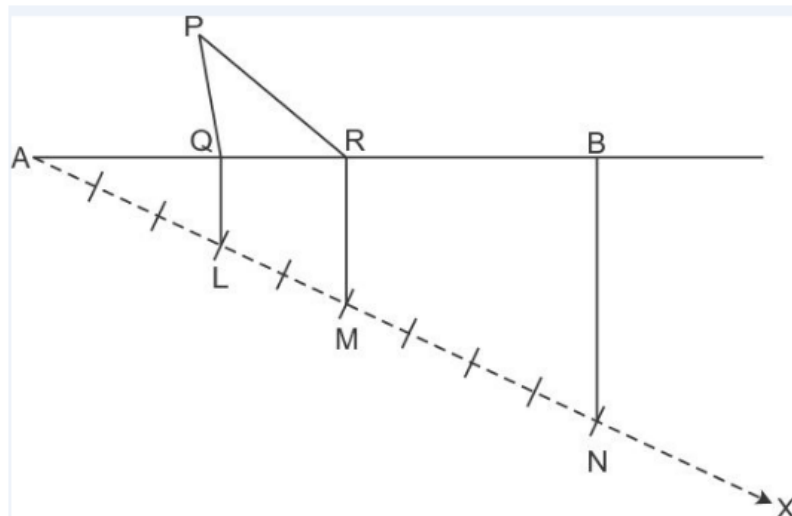
- (i) Draw any line XY .
 - (ii) Take any point P on XY and draw $PQ \perp XY$.
 - (iii) Along PQ , set off $PA = 4.8$ cm.
 - (iv) Through A , draw $LM \parallel XY$.
 - (v) Construct $\angle LAB = 30^\circ$ and $\angle MAC = 60^\circ$ meeting XY at B and C respectively.
- $\therefore \triangle ABC$ 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 $LQ \parallel NB$ and $MR \parallel NB$ 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 .
- $\therefore \triangle PQR$ is the required triangle.



***** END *****