Construction

Dec 2023

- 1. Draw a circle of radius 3.5cm. Take a point P outside the circle at a distance of 7cm from the centre of the circle and construct a pair of tangents to the circle from that point.
- 2. Contruct a $\triangle ABC$ with sides BC = 6cm, AB = 5cm and $\angle ABC = 60^{\circ}$. Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of $\triangle ABC$.
- 3. In Figure 1, $DE \parallel BC$. If $\frac{AD}{DB} = \frac{3}{2}$ and AE = 2.7cm, then EC is equal to
 - (a) 2.0*cm*
 - (b) 1.8*cm*
 - (c) 4.0*cm*
 - (d) 2.7cm

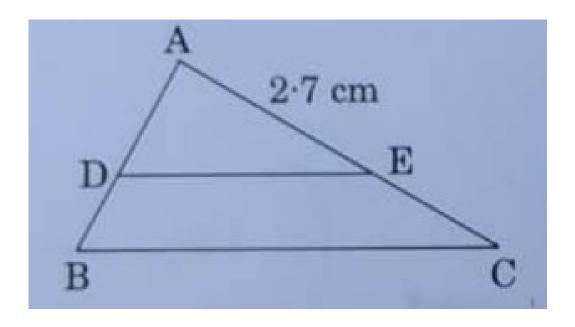


Figure 1

4. In Figure 2, if $PQ \parallel BC$ and $PR \parallel CD$ that $\frac{QB}{AQ} = \frac{DR}{AR}$.

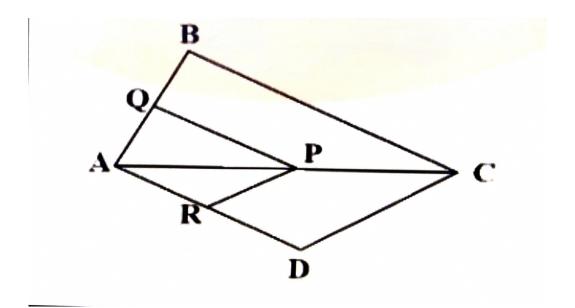


Figure 2