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 center 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 $\angle ABC = 60°$ .Then construct a triangle whose sides are $\frac{3}{4}$ of the corresponding sides of $\triangle ABC$.
3. In Figure-1,$DE||BC$.If $\frac{AD}{DB} = \frac{3}{2}$ and $AE = 2.7cm$, then EC is equal to
   (A) $2.0cm$
   (B) $1.8cm$
   (C) $4.0cm$
   (D) $2.7cm$

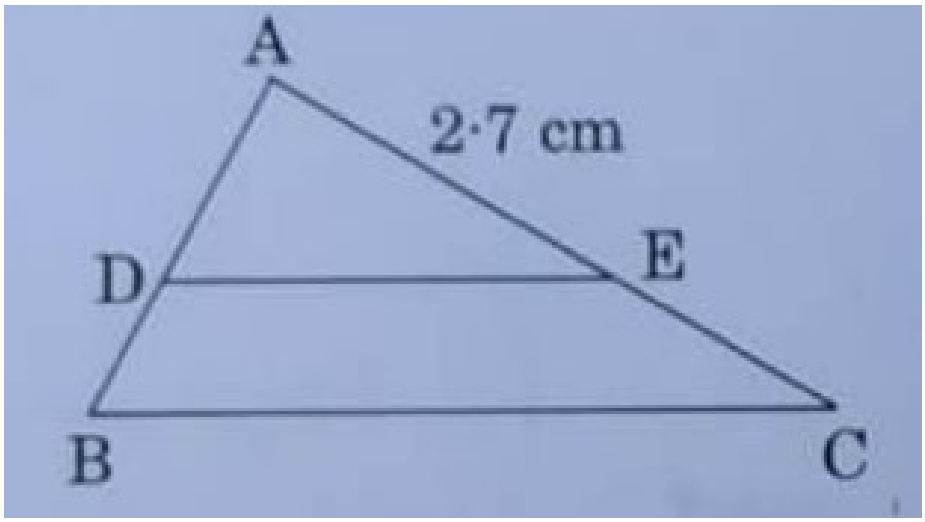

Figure 1:

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