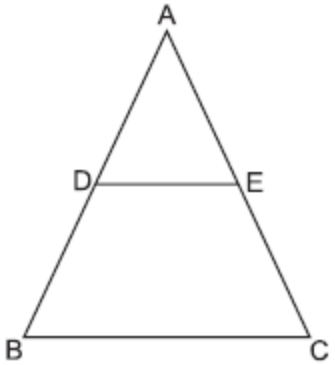
Chapter-Triangles
Question bank

Q1.

In Fig., $DE \parallel BC$, $AD = 1$ cm and BD = 2 cm. what is the ratio of the ar (ΔABC) to the ar (ΔADE)?



Q2.

In ΔDEW, $AB \parallel EW$. If $AD = 4$ cm, $DE = 12$ cm and $DW = 24$ cm, then find the value of DB.

Q3.

In Fig. , if $\Delta ABC \sim \Delta DEF$ and their sides of lengths (in cm) are marked along them, then find the lengths of sides of each triangle.

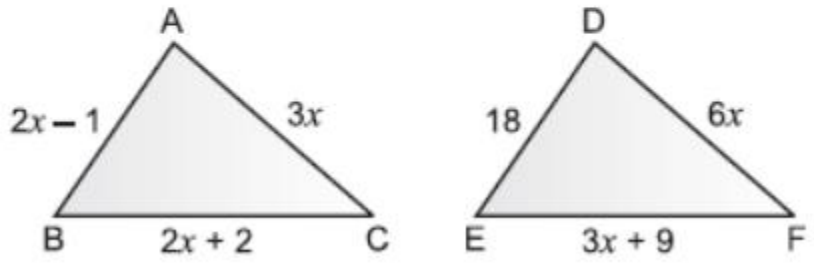


Fig.

Q4.

In Fig. , $\angle D = \angle E$ and $\frac{AD}{DB} = \frac{AE}{EC}$, prove that BAC is an isosceles triangle.

Q5.

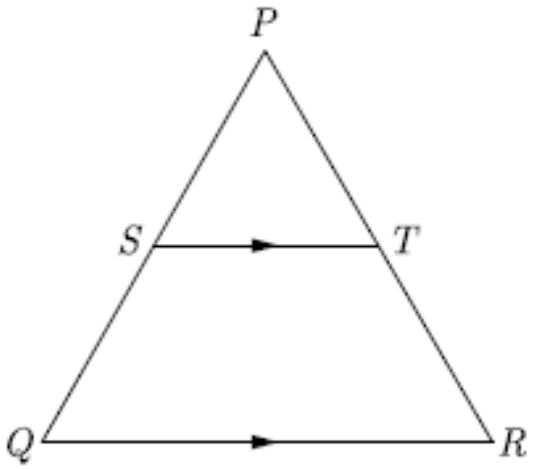
Two right triangles ABC and DBC are drawn on the same hypotenuse BC and on the same side of BC. If AC and BD intersect at P, prove that $AP \times PC = BP \times DP$.

Q6.

In ΔABC, if X and Y are points on AB and AC respectively such that $\frac{AX}{XB} = \frac{3}{4}$, $AY = 5$ and $YC = 9$, then state whether XY and BC parallel or not.

Q7.

In the given figure, in a triangle PQR, $ST \| QR$ and $\frac{PS}{SQ} = \frac{3}{5}$ and $PR = 28$ cm, find PT.

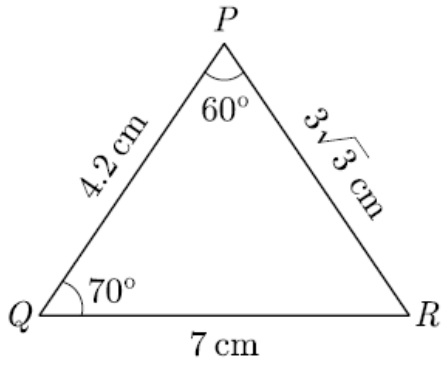


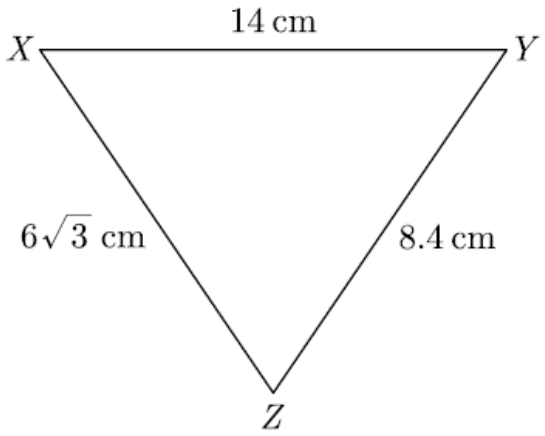
Q8.

$ABCD$ is a trapezium in which $AB \| CD$ and its diagonals intersect each other at the point O. Show that $\frac{AO}{BO} = \frac{CO}{DO}$.

Q9.

In the given figures, find the measure of $\angle X$.





Q10.

In the given figure, $OA \times OB = OC \times OD$, show that

$\angle A = \angle C$ and $\angle B = \angle D$.