



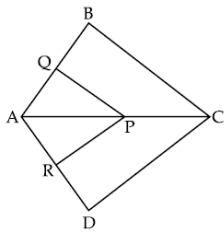
1. If the three sides of a triangle are a , $\sqrt{3}a$, $\sqrt{2}a$, then the measure of the angle opposite to the longest side is:

- (i) 45° (ii) 30° (iii) 60° (iv) 90°

2. Areas of two similar triangles are in the ratio 4 : 9. Sides of these triangles are in the ratio

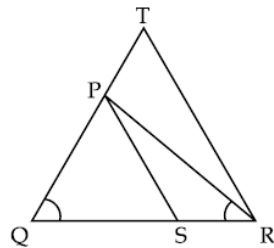
- (a) 2 : 3 (b) 4 : 9 (c) 81 : 16 (d) 16 : 81

3. In figure . if $PQ \parallel CB$ and $PR \parallel CD$, prove that $\frac{AR}{AD} = \frac{AQ}{AB}$



3 $\triangle ABC$ is such that $AB=3$ cm, $BC=2$ cm and $CA=2.5$ cm. If $\triangle DEF \sim \triangle ABC$ and $EF=4$ cm, then perimeter of $\triangle DEF$ is :

4 $\frac{QR}{QS} = \frac{QT}{PR}$ and $\angle TQR = \angle PRS$. Show that $\triangle PQS \sim \triangle PQR$.



5. The diagonals of a trapezium ABCD, in which $AB \parallel DC$, intersect at O. If $AB=2CD$, then find the ratio of areas of triangles AOB and COD.

6. In a triangle ABC, the mid points of sides AB, BC and CA are D,E and F respectively. Find the ratio of areas of triangles DEF and $\triangle ABC$.

7. In a triangle ABC, the mid points of sides AB, BC and CA are D,E and F respectively. Find the ratio of areas of triangles DEF and $\triangle ABC$.

8. The diagonals of a trapezium ABCD, in which $AB \parallel DC$, intersect at O. If $AB=2CD$, then find the ratio of areas of triangles AOB and COD.