

Maths : Revision

1. State and prove Thales Theorem (BPT).
2. State and prove Angle Bisector Theorem.
3. State and prove Pythagoras Theorem.
4. Show that the angle bisectors of a triangle are concurrent.
5. In two concentric circles, a chord of length 16 cm of larger circle becomes a tangent to the smaller circle whose radius is 6 cm. Find the radius of the larger circle.
6. A man goes 18 m due east and then 24 m due north. Find the distance of his current position from the starting point?
7. ABCD is a trapezium in which $AB \parallel DC$ and P , Q are points on AD and BC respectively, such that $PQ \parallel DC$ if $PD = 18$ cm, $BQ = 35$ cm and $QC = 15$ cm, find AD.
8. If ΔABC is similar to ΔDEF such that $BC = 3$ cm , $EF = 4$ cm and area of $\Delta ABC = 54$ cm². Find the area of ΔDEF .