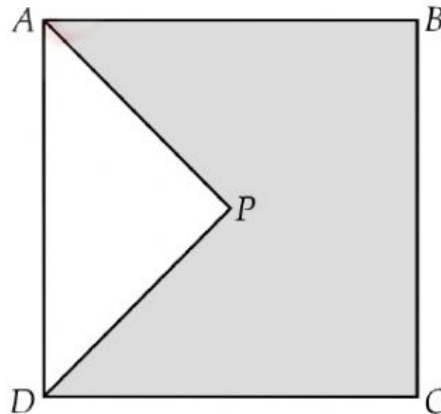


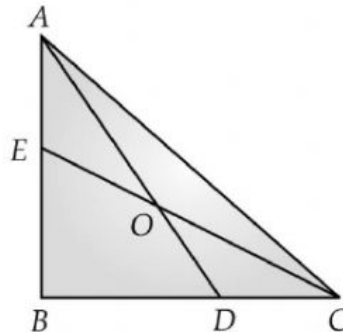
Concept_Grade-9_Lines and Angles

Triangle

1. In the given figure, AP and DP are bisectors of $\angle A$ and $\angle D$. Prove that, $2\angle APD = \angle B + \angle C$

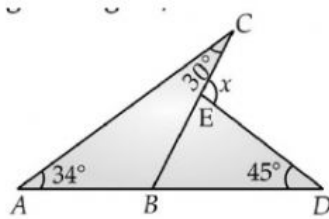


2. In the given figure, AD and CE are the bisectors of $\angle A$ and $\angle C$ respectively. If $\angle ABC = 90^\circ$ Find $\angle ADC + \angle AEC$.

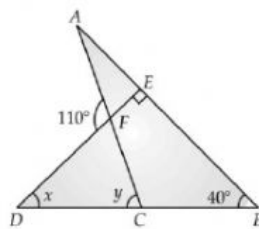


3. The angles of a triangle are $(x - 40)^\circ$, $(x - 20)^\circ$ and $(\frac{x}{2} - 10)^\circ$ Find the value of x and then the angles

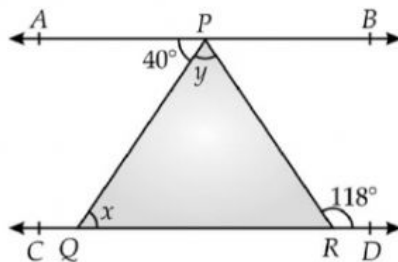
4. In the given figure, find the value of x



5. In given figure $DE \perp AB$. Find the values of x and y .



6. In figure, if $AB \parallel CD$, $\angle APQ = 40^\circ$ and $\angle PRD = 118^\circ$, find x and y .



7. In the given figure, $\angle CAB : \angle BAD = 1 : 2$, find all the internal angles of $\triangle ABC$.

