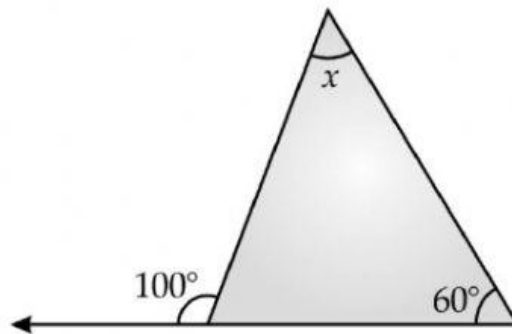


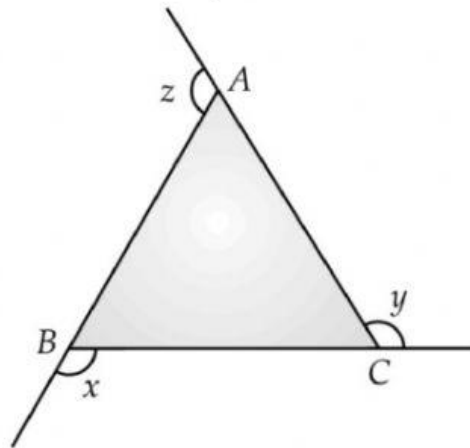
Concept_Grade-9_Lines and Angles

Triangle

1. An exterior angle of a triangle is 80° and two interior opposite angles are equal. What will be the measure of each?
2. What is the value of x in the figure given below ?

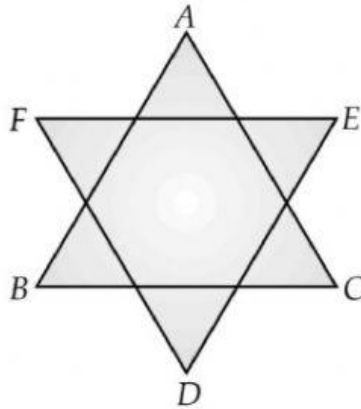


3. In the figure below, if x , y and z are exterior angles of $\triangle ABC$, then calculate the value of $x + y + z$.

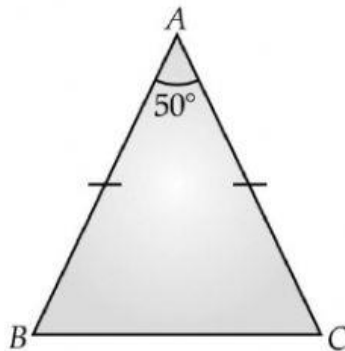


4. In $\triangle ABC$, $\angle A = \angle B/2 = \angle C/6$, then what will be the measure of $\angle A$?

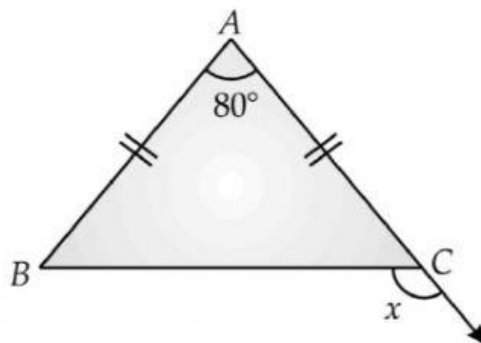
5. In the figure below, if $\angle A + \angle B + \angle C + \angle D + \angle E + \angle F = k$ right angles, then what is the value of k ?



6. In the given figure, ABC is an isosceles triangle with $AB = AC$ and $\angle A = 50^\circ$. Calculate $\angle B$



7. In the fig. below, in $\triangle ABC$, $AB = AC$, then calculate the value of x .



8. In $\triangle ABC$, $\angle A + \angle B = 65^\circ$ and $\angle B + \angle C = 140^\circ$, find the value of $\angle B$ and $\angle C$

9. In figure, $PQ \perp PR$, $QP \parallel RL$, $\angle RQT = 38^\circ$ and $\angle QTL = 75^\circ$. Find x and y
10. In $\triangle ABC$, if $\angle A = (2x - 5^\circ)$, $\angle B = (5x + 5^\circ)$, $\angle C = (3x + 50^\circ)$, then find the value of x , $\angle A$, $\angle B$ and $\angle C$.