INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

CH:6 Lines and Angles

Name: _____ Date:_____ Class: IX Sec: ___

1. The complement of an angle m.

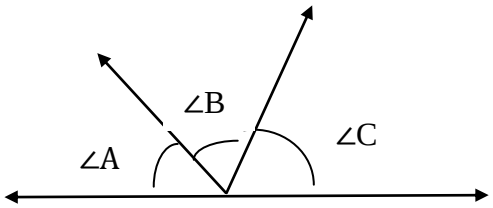
2. Find the supplementary angle of 60°.

3. Prove that the sum of the three angles of a triangle is 180°.

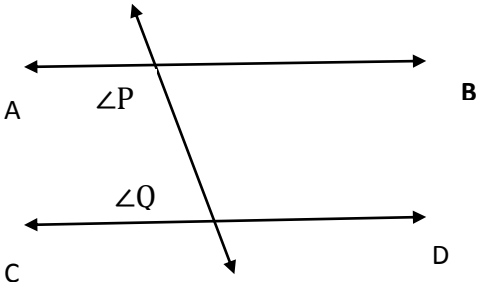
4. If lines AB and CD are parallel and P is any point between the two lines. Prove that ∠DPB = $x + y$.

5. If bisectors of angles B and C of a triangle ABC, intersect each other at the point O. Prove that ∠BOC = 90° + $\frac{\angle A}{2}$.

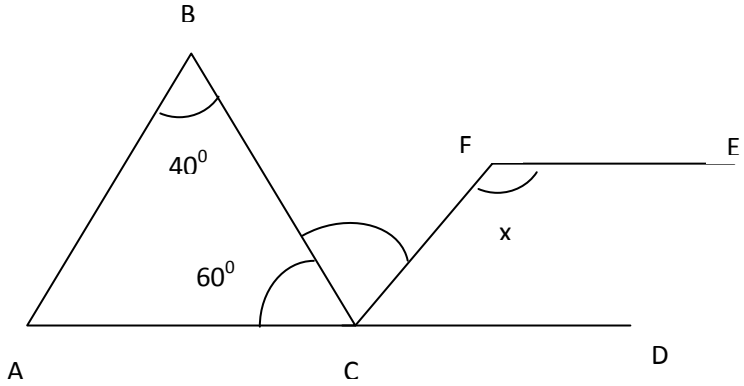
6. In the given figure, find the value of x. If $\angle A = (x + 3)$, $\angle B = (x + 20)$ and $\angle C = (x + 7)$.



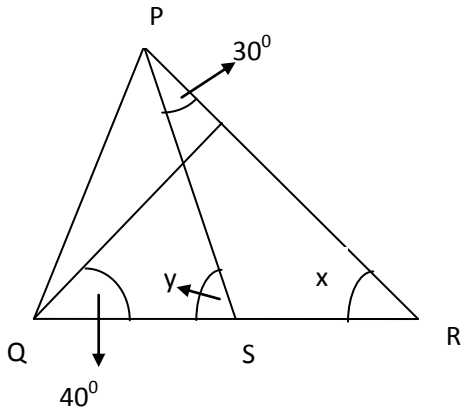
7. If AB // CD, Then find the value of x. ∠P = (2x+ 40)° and ∠Q = (x + 90)°.



8. If AB ∥ CF, CD ∥ FE then the value of x is :



9. If QT ⊥ PR, $\angle TQR = 40^0$ and $\angle SPR = 30^0$, find x and y.



10. AB ∥ DC, $\angle BDC = 30^0$ and $\angle BAD = 80^0$, find $\angle x,\ \angle y\ and\ \angle z$.

