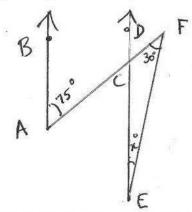
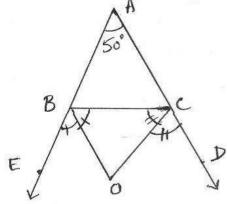
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## LINES AND ANGLES

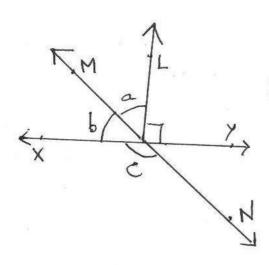
- If two lines intersect each other prove that the vertically opposite angles are equal.
- 2. If a transversal intersects two lines such that the bisectors of a pair of alternate angles are parallel, then prove that the lines are parallel.
- 3. Prove that the sum of the angles of a triangle is 180°.
- 4. In the given figure AB II CD, then find the value of x.



5. In the figure, BO and CO are bisectors of B and C respectively, find the value of BOC.

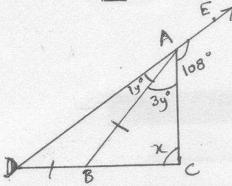


6. In the figure, a:b=3:4, find c.

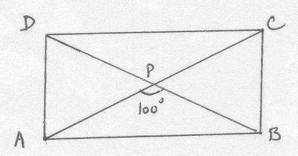


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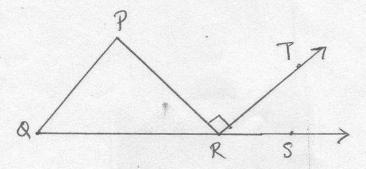
7. In the figure, AB divides DAC in the ratio of 1:3 and AB = DB. Determine the value of x.



8. In the figure, ABCD is a rectangle, find the value of x.



9. In the figure  $\frac{P}{P}$ :  $\frac{Q}{Q}$ :  $\frac{PRQ}{Q}$  = 3; 2: 1 and RT is perpendicular to PR, find TRS.



10. In the figure ray OC stands on line AOB. OP and OQ are bisectors of BOC and AOC respectively. Then find the value of POQ.

