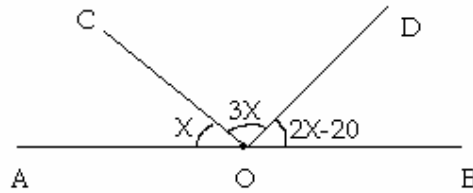
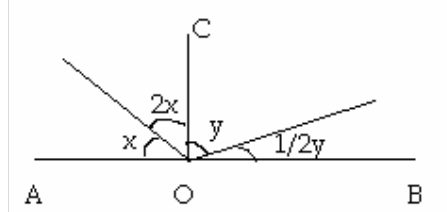


LINES AND ANGLES

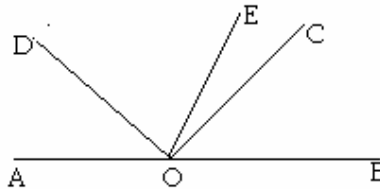
1. In fig. AOB is a straight line, find $\angle AOC$ and $\angle BOD$.



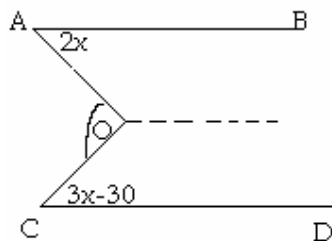
2. Find x and y if AOB is a straight line and angle AOC is 90 degrees.



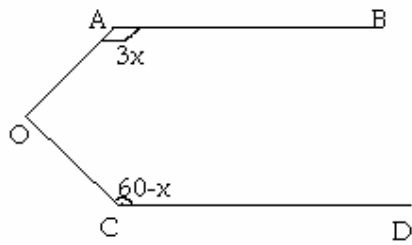
3. Find $\angle AOC$, $\angle BOD$ and $\angle AOE$. Given $\angle COD = 90^\circ$, $\angle BOE = 72^\circ$ and AOB is a straight line.



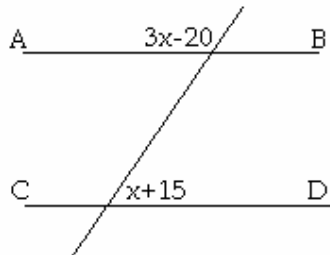
4. Prove that the bisectors of the angles of a linear pair form a right angle.
5. Prove that the bisectors of a pair of vertically opposite angles are in the same straight line.
6. Prove that a line is perpendicular to one of the two given parallel lines, then it is also perpendicular to the other line.
7. If two parallel lines are intersected by a transversal, then the bisectors of any pair of alternate angles are parallel.
8. Prove bisectors of a pair of corresponding angles are parallel; prove that the lines are parallel.
9. If two parallel lines are intersected by a transversal, prove that the bisectors of the pairs of interior angles enclose a rectangle.
10. Find angle AOC



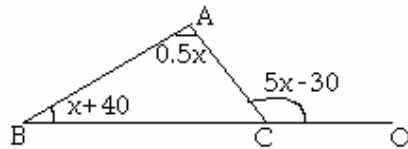
11. If $AB \parallel CD$, find x .



12. If $AB \parallel CD$, find x .



13. Find x and all the angles of triangle ABC .



14. If the arms of one angle are respectively parallel to the arms of another triangle, show that the two angles are either equal or supplementary.