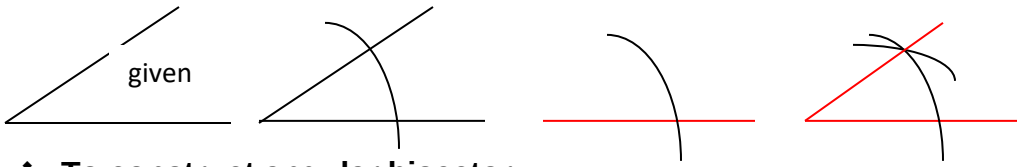
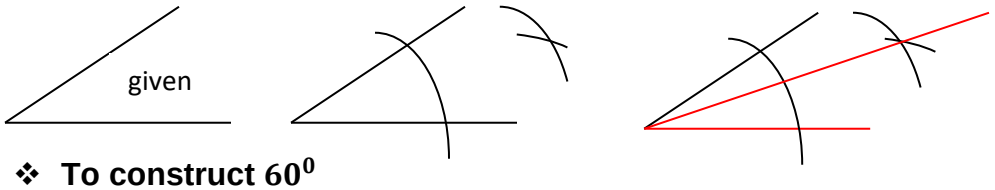
CONSTRUCTION

CONSTRUCTION OF AN ANGLE

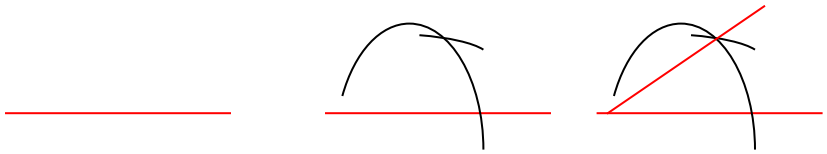
- **To construct angle equal to given angle:**



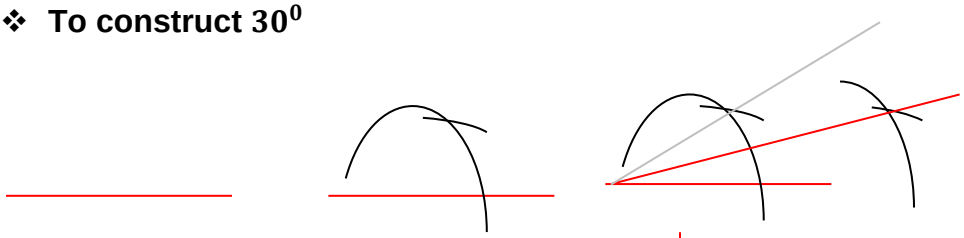
- **To construct angular bisector**



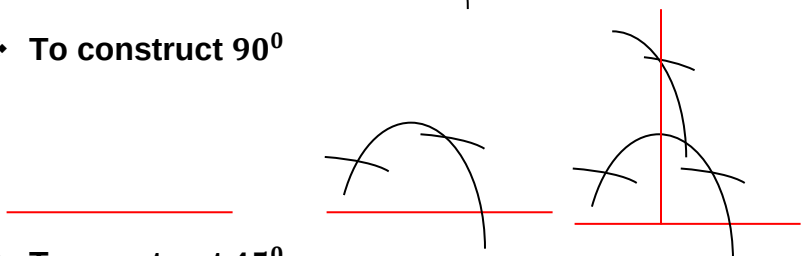
- **To construct 60^0**



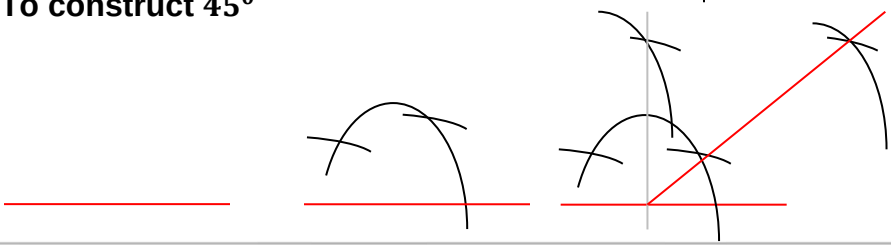
- **To construct 30^0**



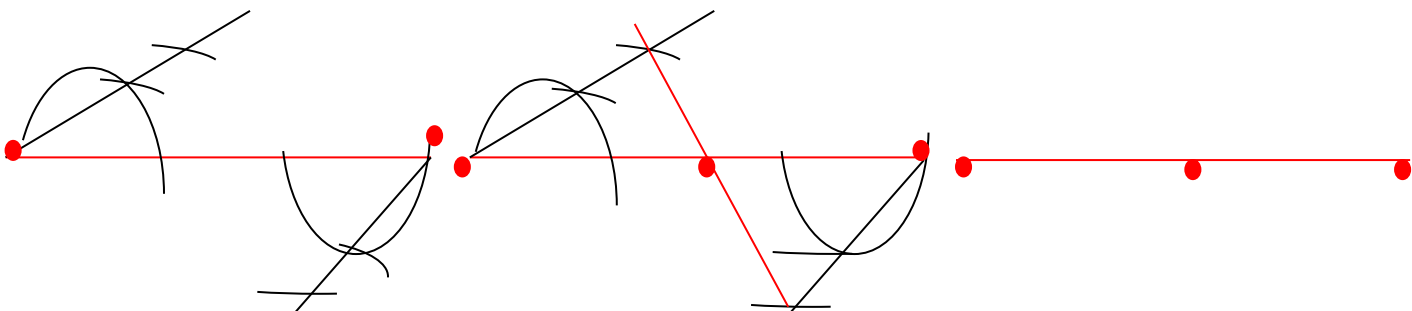
- **To construct 90^0**



- **To construct 45^0**

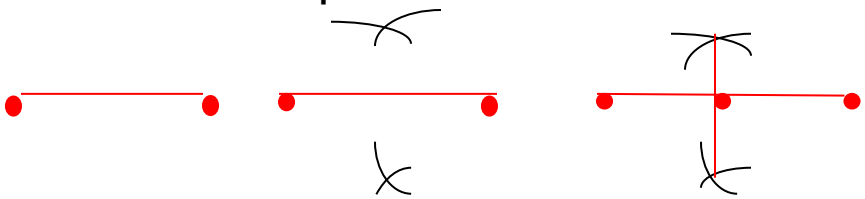


CONSTRUCTION OF BISECTOR OF A LINE SEGMENT

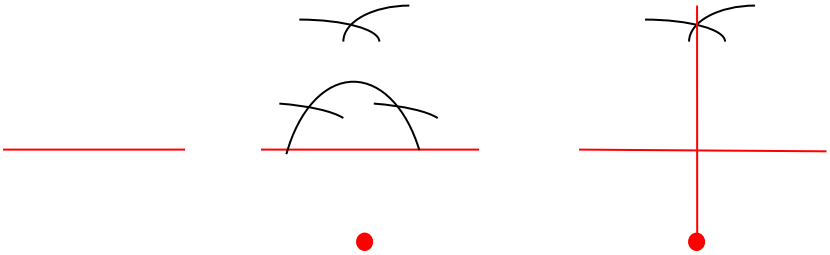


CONSTRUCTION

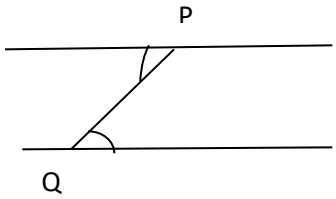
- **Construction Of Perpendicular Bisector**



- **Construction Of Perpendicular line:** It is equivalent of constructing right angles to the line segment given.
- **Construction Of Perpendicular from external point:**



- **Construction Of Parallel lines:** Take any point Q on the given line segment, and P on another line segment given. Join PQ and construct alternate angles such that they are equal.



APPLICATION

- **Construction of Scalene triangle:** All sides are unequal.
- **Construction of Equilateral triangle:** All sides are equal, each angle $=60^{\cdot 0}$
- **Construction of Isosceles triangle:** Two sides and base angles are equal
- **Construction of Right angled triangle:** One angle $=90^{\cdot 0}$
- **Circumscribe and Inscribe of a triangle:** Triangle inside circle & vice versa
- **Construction of a Quadrilateral:** Opposite sides are parallel
- **Construction of Parallelogram:** Opposite sides are parallel and equal
- **Construction of Rectangle:** Opposite sides are parallel, equal & angles$=90^{\cdot 0}$
- **Construction of Rhombus:** All sides are equal, diagonals bisect each other
- **Construction of Square:** Opposite sides are parallel, all sides are equal & angles$=90^{\cdot 0}$