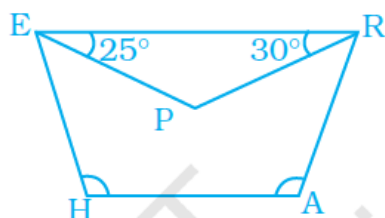


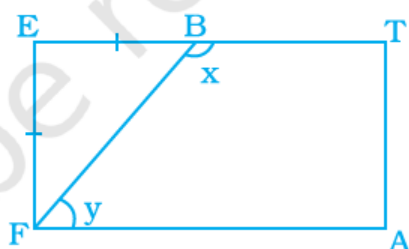
EduFest Academy Junior, Pune

8th Maths Understanding Quadrilaterals

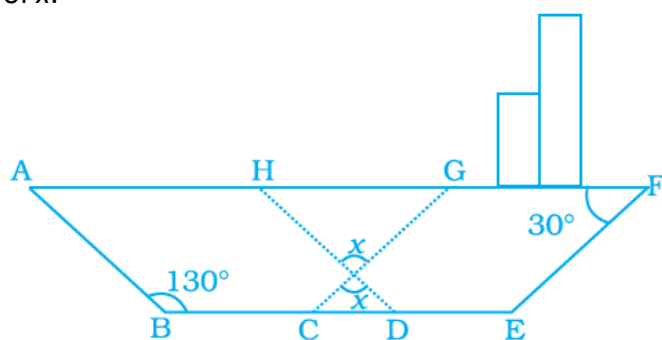
1. In trapezium HARE, EP and RP are bisectors of $\angle E$ and $\angle R$ respectively. Find $\angle HAR$ and $\angle EHA$.



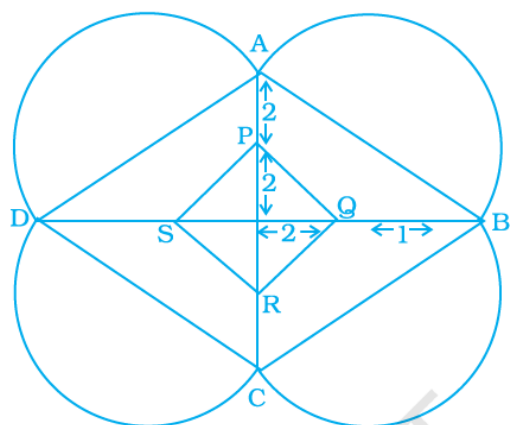
2. In parallelogram MODE, the bisector of $\angle M$ and $\angle O$ meet at Q, find the measure of $\angle MQO$.
3. A playground is in the form of a rectangle ATEF. Two players are standing at the points F and B where $EF = EB$. Find the values of x and y .



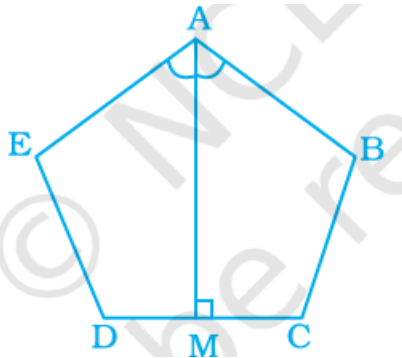
4. In the following figure of a ship, ABDH and CEFG are two parallelograms. Find the value of x .



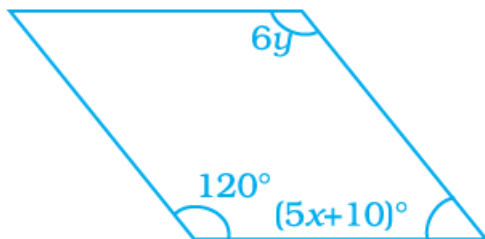
5. A Rangoli has been drawn on a floor of a house. ABCD and PQRS both are in the shape of a rhombus. Find the radius of semicircle drawn on each side of rhombus ABCD.



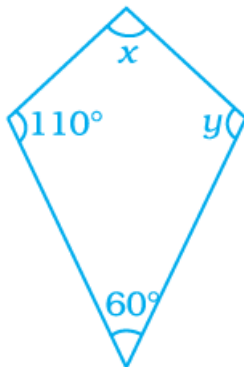
6. ABCDE is a regular pentagon. The bisector of angle A meets the side CD at M. Find $\angle AMC$



7. Quadrilateral EFGH is a rectangle in which J is the point of intersection of the diagonals. Find the value of x if $JF = 8x + 4$ and $EG = 24x - 8$.
8. Find the values of x and y in the following parallelogram.



9. Find the values of x and y in the following kite.



10. Find the value of x in the trapezium ABCD given below.

