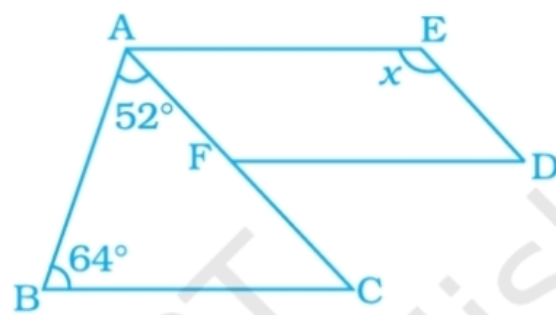
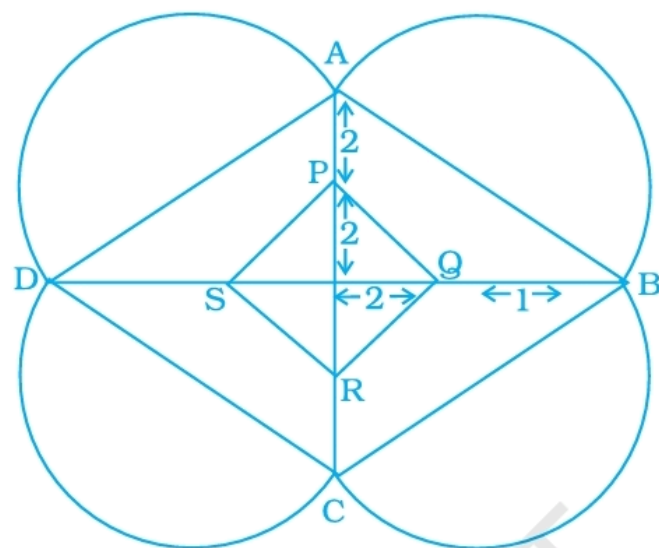


1. In the following figure, $FD \parallel BC \parallel AE$ and $AC \parallel ED$. Find the value of x .

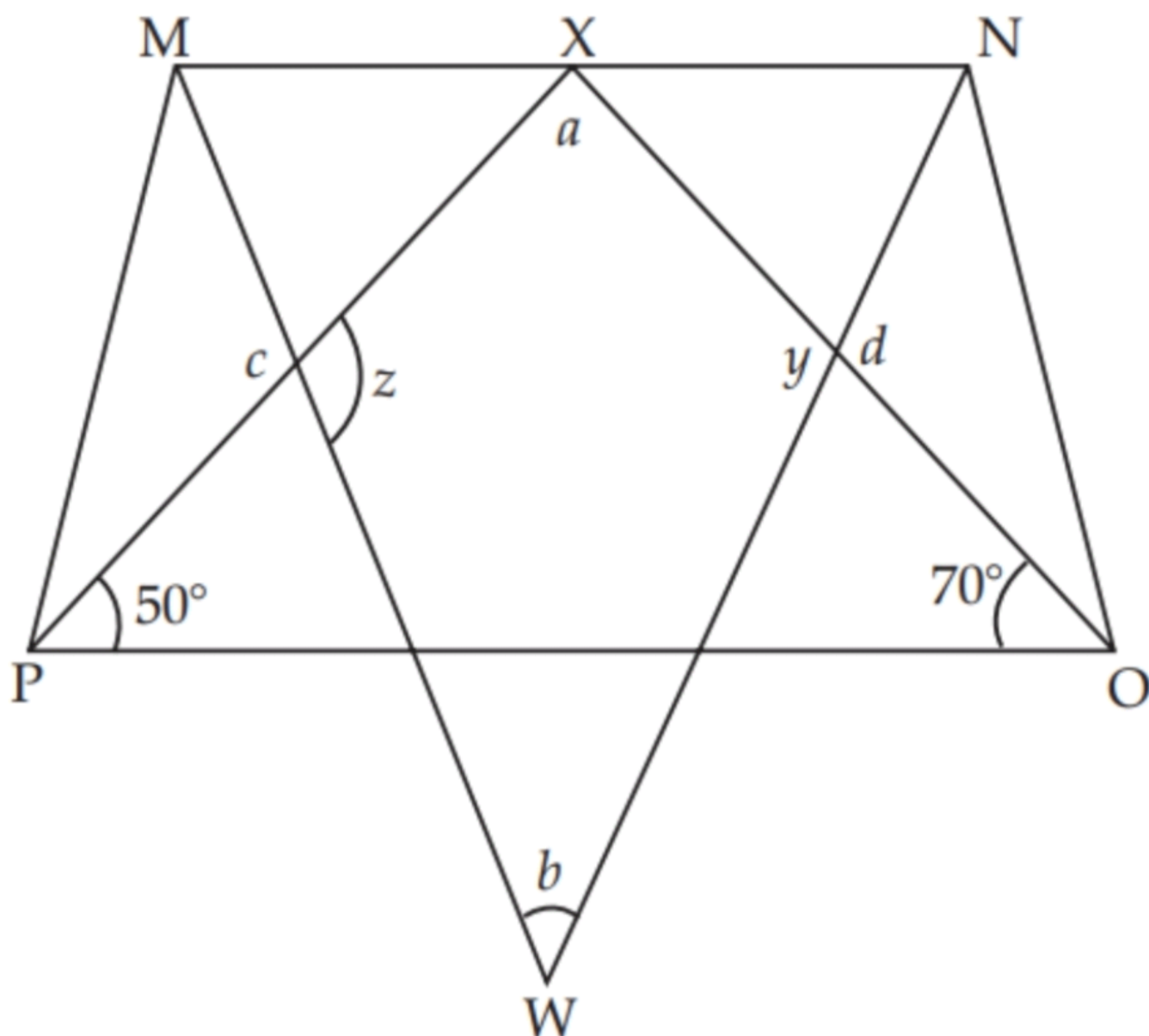


3. A Rangoli has been drawn on a floor of a house. ABCD and PQRS both are in the shape of a rhombus. Find the radius of semicircle drawn on each side of rhombus ABCD.



There is a trapezium MNOP, angle bisector of $\angle M$ and $\angle N$ meet at point W, and angle bisector of $\angle O$ and $\angle P$ meet at point X on side MN of trapezium MNOP.

By using the figure give the answers to following questions:



The problem is as follows:

Find the value of angle $\angle BCA$ or x .

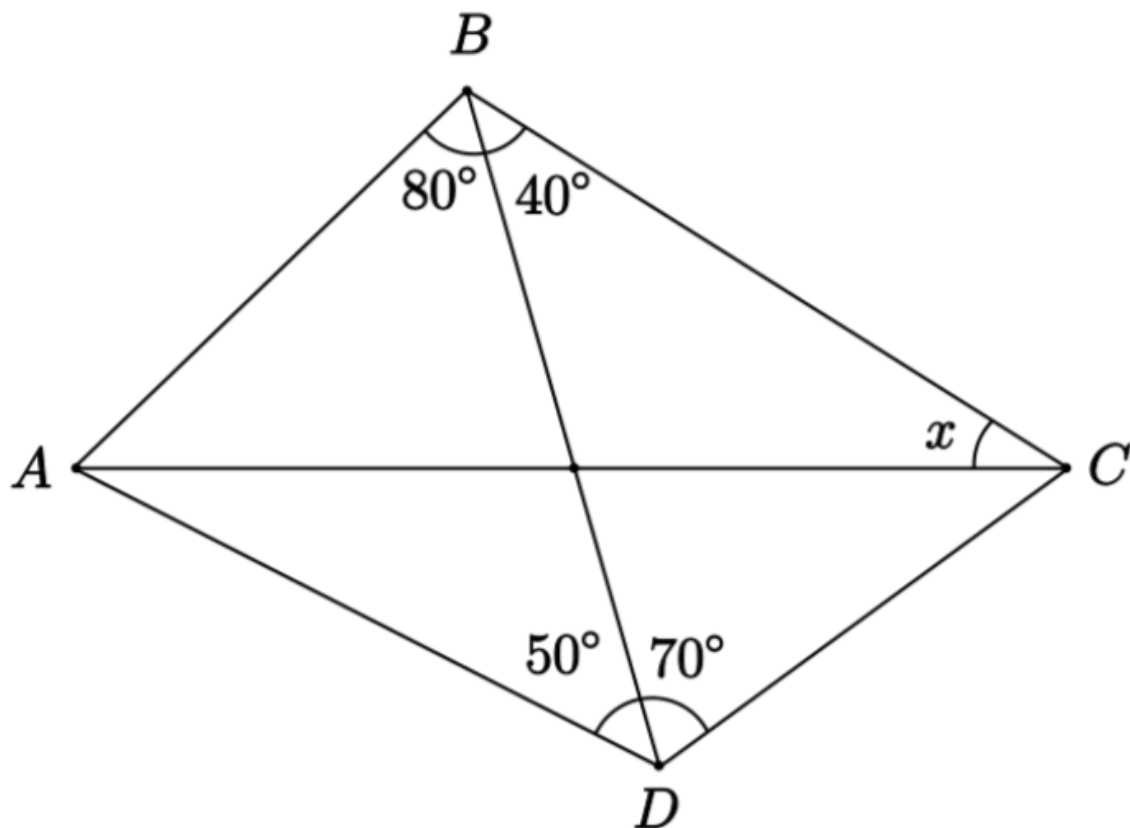


Fig. 1. Sketch of the problem