

Mathematics

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(Chapter – 6) (Lines and Angles)(Exemplar Problems)

(Class – IX)

Exercise 6.2

Question 6:

In Fig. 6.5, find the value of x for which the lines l and m are parallel.

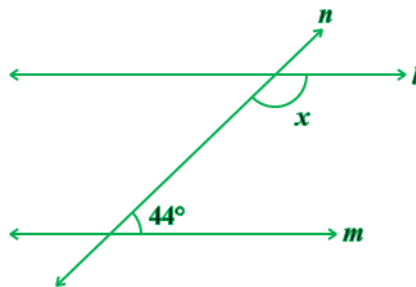


Fig. 6.5

Answer 6:

In the given figure, $l \parallel m$

Using the properties of parallel line (if a transversal intersects two parallel lines, then sum of interior angles on the same side of a transversal is supplementary), we have

$$\begin{aligned} & x + 44^\circ = 180^\circ \\ \Rightarrow & x = 180^\circ - 44^\circ \\ \Rightarrow & x = 136^\circ \end{aligned}$$

