

# Mathematics

(www.tiwariacademy.net)

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

(Class – IX)

## Exercise 6.2

### Question 9:

In Fig.6.6, which of the two lines are parallel and why?

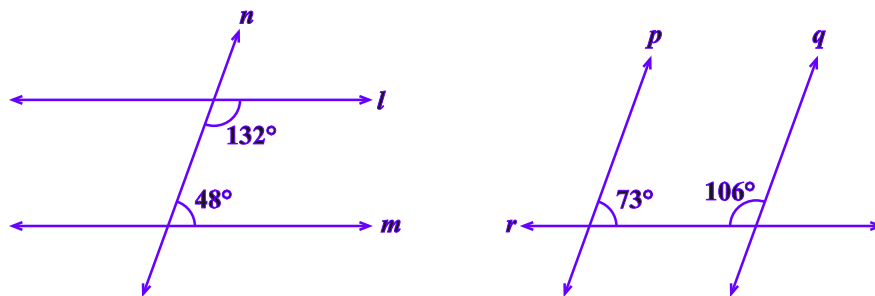


Fig.6.6

### Answer 9:

In case (i)

Sum of two interior angles  $132^\circ + 48^\circ = 180^\circ$

Here, the sum of two interior angles on the same side of line  $n$  is  $180^\circ$ , hence these are the parallel lines.

In case (ii)

Sum of two interior angles  $73^\circ + 106^\circ = 179^\circ \neq 180^\circ$ .

Here, the sum of two interior angles on the same side of line  $r$  is not equal to  $180^\circ$ , hence, these are not the parallel lines.

