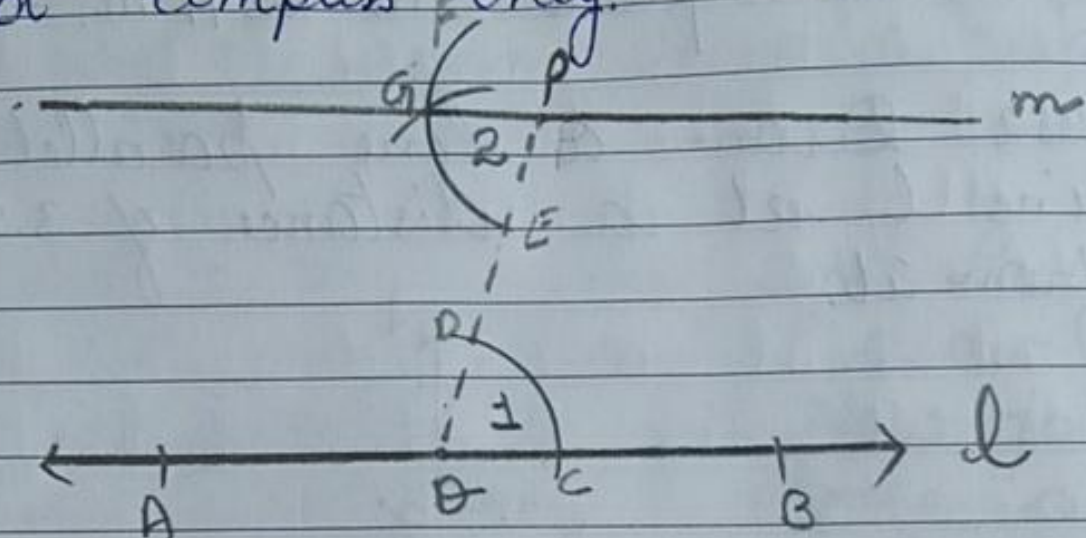


1. Draw a line l , take a point p outside it. Through p draw a line parallel to l using ruler and compass only.



To Construct: Scale, Compass

Steps of Construction

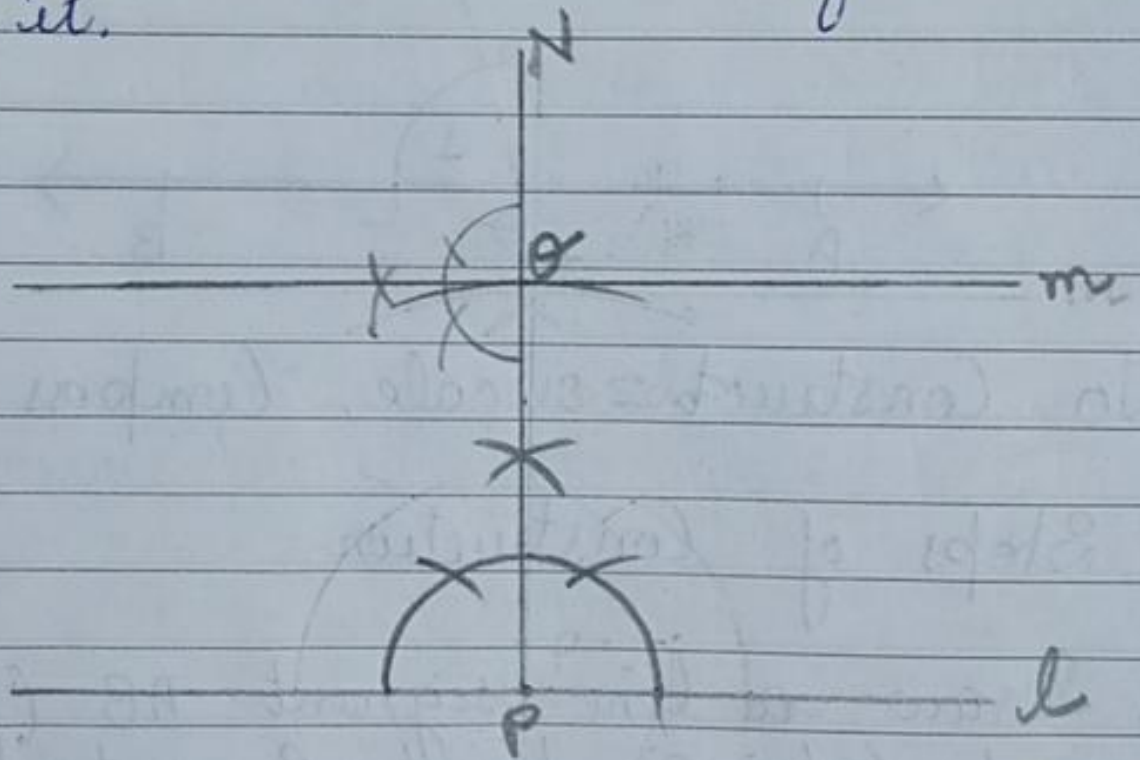
- 1) Draw a line segment AB (line l) and take a point P outside the line l .
- 2) Take any point O on l and join P to O .
- 3) With O as centre and take small radius, draw an arc cutting AB at C and PO at D .
- 4) With P as centre and same radius as in step 3, draw an arc EF .

cutting PA at E .

- 5) With the same arc CD , draw the equal arc cutting EF at G .
- 6) Join GP to draw a line m .

This is required line $l \parallel m$.

Ques 2 Draw a line parallel to a line l at a distance of 3.5 cm from it.



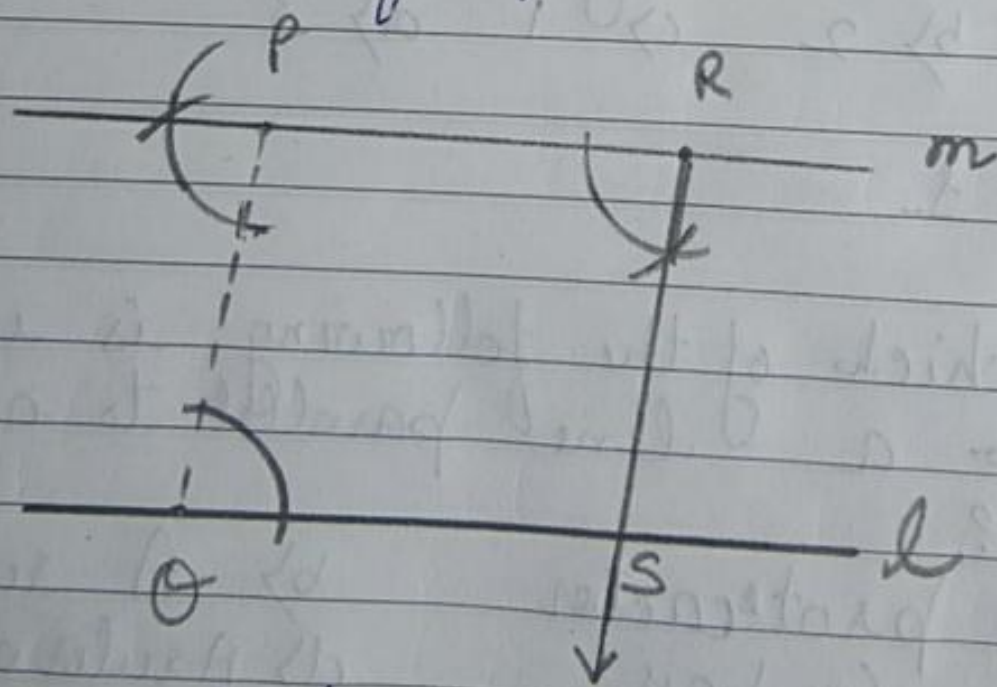
Steps of Construction

- 1) Draw a line l .
- 2) Take any point P on line l and draw perpendicular line N .

3) Place the pointed tip of the Compass at P and draw an arc to cut this perpendicular at a distance of 3.5 cm and mark as point Q .

4) At point Q , again draw a perpendicular line m .

Ques 3) Let l be a line and P be a point not on l . Through P draw a line m parallel to l . Now join P to any point A on l . Choose any other point R on m . Through R draw a line parallel to PA . Let this meet l at S . What shape do the two sets of parallel lines enclose



Steps of Construction

1) Draw a line l

- 2) Take any point O on l and a point P outside l and join PO .
- 3) Make sure that angles at point P and point O are equal i.e. $\angle O = \angle P$
- 4) At point P extend line to get line m which is parallel to l .
- 5) Then take any point R on line m .
- 6) At point R draw angle such that $\angle P = \angle R$
- 7) At point R Extend line which intersects line l at S and draw a line RS .

Ques 4 i) How many parallel lines can be drawn, passing through a point not lying on the given line?

a) 0 b) 2 c) 1 d) 3

Ans 1

ii) which of the following is used to draw a line parallel to a given line?

- a) a protractor b) A ruler
- c) A Compass d) A ruler and Compass

Ans d) A ruler and Compass.