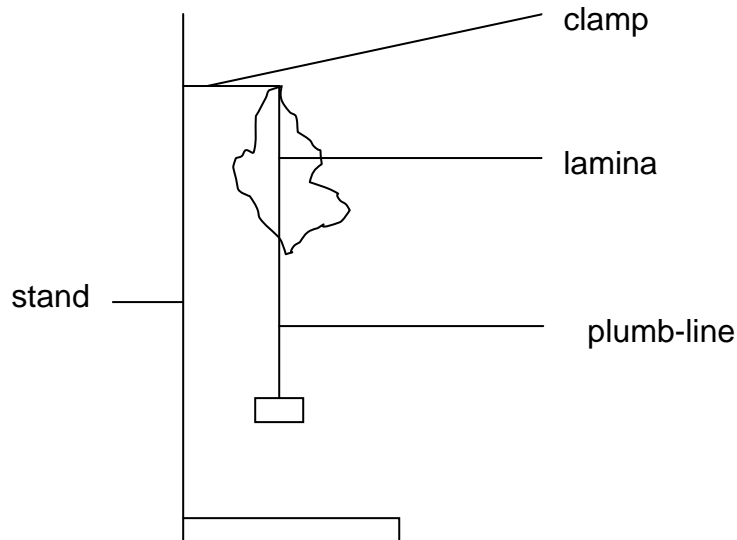


Aim : To find the centre of mass of an irregular-shaped lamina (pdf)



Method

Put a cork in the clamp and suspend the lamina from a pin in this cork.

Make sure the lamina can move freely.

Set up the apparatus as shown.

When the lamina and plumb-line stop moving, using a pencil, mark the position of plumb-line on the lamina.

Repeat this procedure twice more by suspending the lamina from 2 other points.

Join the point, made by the pin, with its corresponding pencil mark, by using a pencil and ruler.

Balance the lamina on the point of a sharp pencil at the place where the 3 lines cross.

Conclusion

Since the lamina balances horizontally at the point where the 3 lines cross, this point is the centre of mass of the lamina.