



12. In Figure 1, a triangle ABC with $\angle B = 90^\circ$ is shown. Taking AB as diameter, a circle has been drawn intersecting AC at point P. Prove that the tangent drawn at point P bisects BC.

4

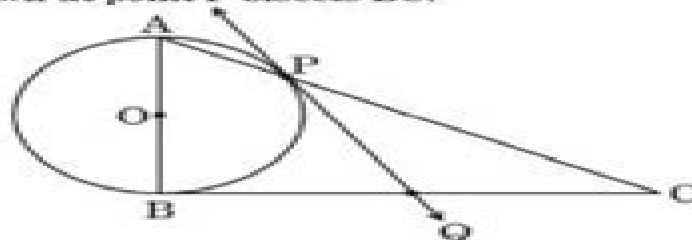


Figure 1

Case Study – 1

13. In Mathematics, relations can be expressed in various ways. The matchstick patterns are based on linear relations. Different strategies can be used to calculate the number of matchsticks used in different figures.

One such pattern is shown below. Observe the pattern and answer the following questions using Arithmetic Progression :



Figure 1

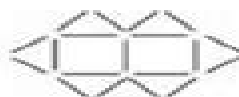


Figure 2

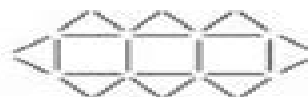


Figure 3

- (a) Write the AP for the number of triangles used in the figures. Also, write the n^{th} term of this AP. 2
- (b) Which figure has 61 matchsticks ? 2

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