

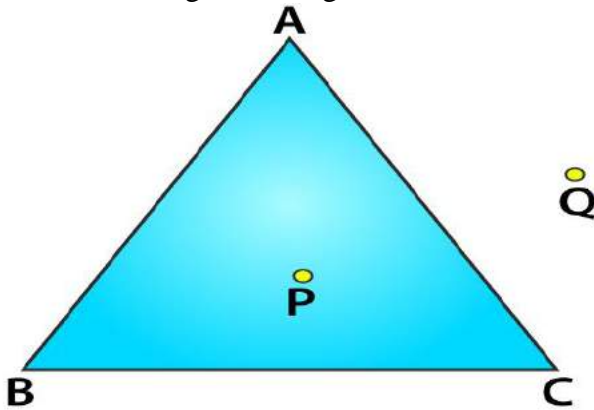
**EXERCISE 4.4**

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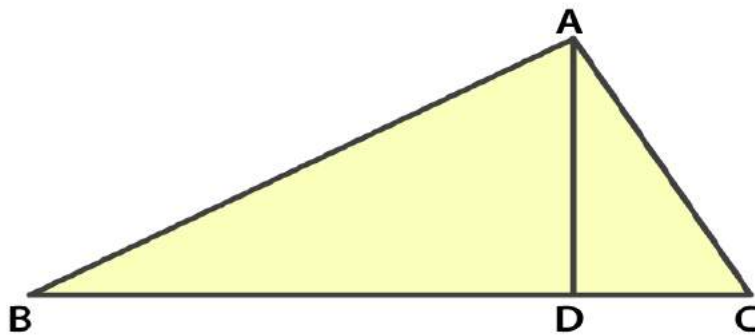
1. Draw a rough sketch of a triangle ABC. Mark a point P in its interior and a point Q in its exterior. Is the point A in its exterior or in its interior?

**Solutions:**

Point A lies on the given triangle ABC. It lies neither in interior nor exterior.



2. (a) Identify three triangles in the figure.  
 (b) Write the names of seven angles.  
 (c) Write the names of six line segments  
 (d) Which two triangles have  $\angle B$  as common?



**Solutions:**

- (a) The three triangles are  $\triangle ABD$ ,  $\triangle ACB$ ,  $\triangle ADC$   
 (b) The angles are  $\angle BAC$ ,  $\angle BAD$ ,  $\angle CAD$ ,  $\angle ADB$ ,  $\angle ADC$ ,  $\angle ABC$ ,  $\angle ACB$   
 (c) The line segments are  $\overline{AB}$ ,  $\overline{AC}$ ,  $\overline{BC}$ ,  $\overline{AD}$ ,  $\overline{BD}$ ,  $\overline{DC}$   
 (d)  $\triangle ABD$  and  $\triangle ABC$  are triangles which have  $\angle B$  as common.