Mathematics
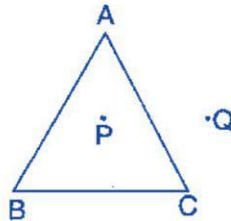
Exercise 4.4

Question 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?
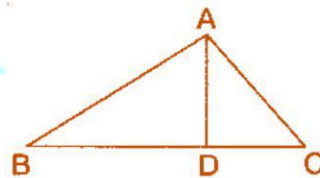
Answer 1:

A is neither interior of the figure nor exterior of triangle. It is a vertex.

Question 2:

(a) Identify three triangles in the figure:
(b) Write the names of seven angles.
(c) Write the names of sic line segments.
(d) Which two triangles have ∠ B as common?

Answer 2:

(a) The three triangles are: ΔABC, ΔABD, ΔADC

(b) Angles are: ∠ ADB, ∠ ADC, ∠ ABD, ∠ ACD, ∠ BAD, ∠ CAD, ∠ BAC

(c) Line segments are: $\overline{AB}$, $\overline{AC}$, $\overline{AD}$, $\overline{BD}$, $\overline{DC}$, $\overline{BC}$

(d) Triangles having common ∠ B: ΔABC, ΔABD,