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:

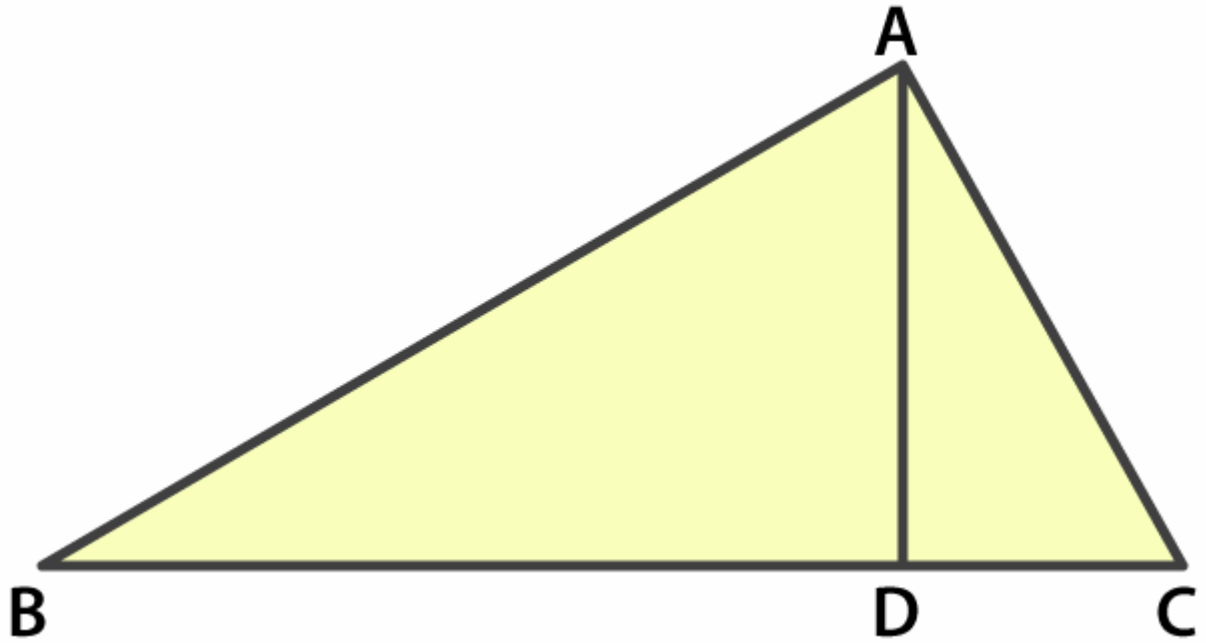Point A lies on the given triangle ABC. It lies neither in interior nor exterior.
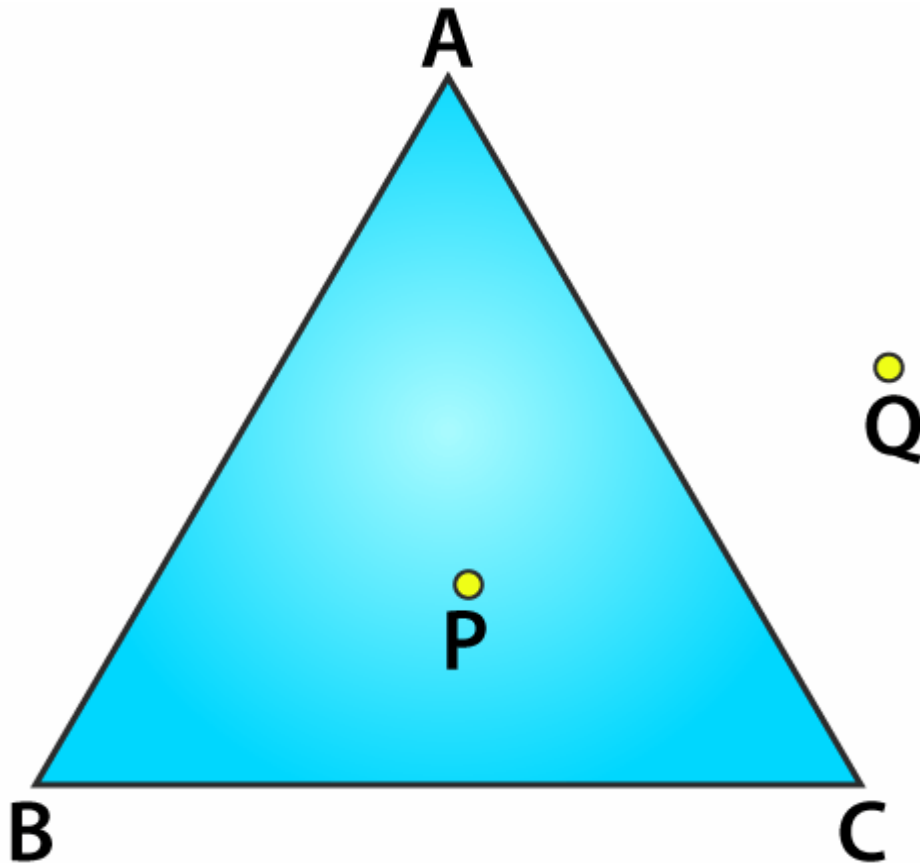
2. (a) Identify three triangles in the figure.

(b) Write the names of seven angles.

(c) Write the names of six line segments

(d) Which two triangles have ∠B as common?

Solutions:

(a) The three triangles are ∠ABD, ∠ACB, ∠ADC

(b) The angles are ∠BAC, ∠BAD, ∠CAD, ∠ADB, ∠ADC, ∠ABC, ∠ACB

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

(d) ∠ABD and ∠ABC are triangles which have ∠B as common.