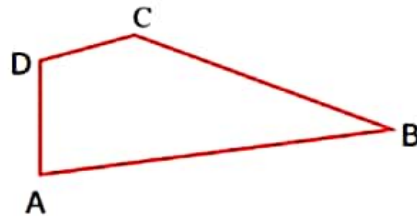


Exercise 4.3

Question 1:

Name the angles in the given figure:



Answer 1:

There are four angles in given figure:

$\angle ABC$, $\angle CDA$, $\angle DAB$, $\angle DCB$

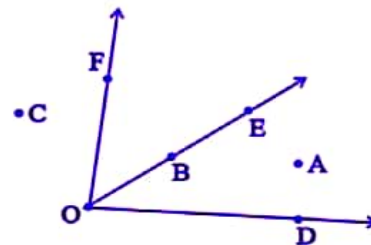
Question 2:

In the given diagram, name the point(s):

(a) In the interior of $\angle DOE$.

(b) In the exterior of $\angle EOF$.

(c) On $\angle EOF$.



Answer 2:

(a) Point interior of $\angle DOE$:

A

(b) Points exterior of $\angle EOF$:

C, A, D

(c) Points on $\angle EOF$:

E, O, B, F

Question 3:

Draw rough diagrams of two angles such that they have:

(a) One point in common.

(b) Two points in common.

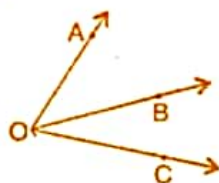
(c) Three points in common.

(d) Four points in common.

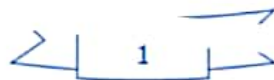
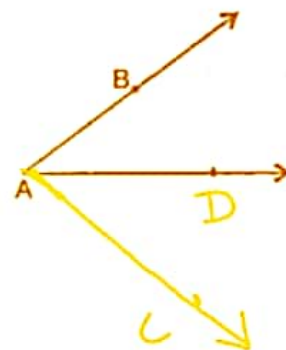
(e) One ray in common.

Answer 3:

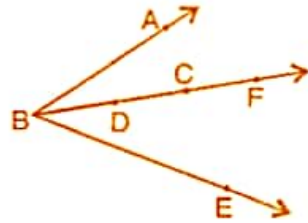
(a)



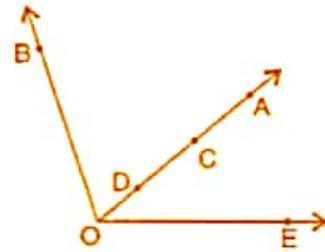
(b)



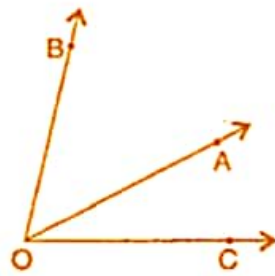
(c)



(d)




(e)

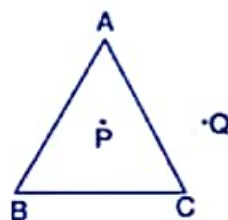


Exercise 4.4

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?

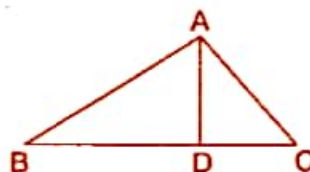
 **Answer 1:**




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 six line segments.
- (d) Which two triangles have $\angle B$ as common?



 **Answer 2:**

- (a) The three triangles are: $\triangle ABC$, $\triangle ABD$, $\triangle ADC$
- (b) Angles are: $\angle ADB$, $\angle ADC$, $\angle ABD$, $\angle ACD$, $\angle BAD$, $\angle CAD$, $\angle BAC$
- (c) Line segments are: \overline{AB} , \overline{AC} , \overline{AD} , \overline{BD} , \overline{DC} , \overline{BC}
- (d) Triangles having common $\angle B$: $\triangle ABC$, $\triangle ABD$,