

# Lines and angles Ex 14.1 Q1

### Answer:

Adjacent angles are the angles that have a common vertex and a common arm. Following are the adjacent angles in the given figure:

 $\angle DOC$  and  $\angle BOC$  $\angle COB$  and  $\angle BOA$ 

Lines and angles Ex 14.1 Q2

## Answer:

In figure (i), the adjacent angles are:

∠EBA and∠ABC ∠ACB and ∠BCF ∠BAC and ∠CAD

In figure (ii), the adjacent angles are:

# ∠BAD and ∠DAC ∠BDA and ∠CDA

## Lines and angles Ex 14.1 Q3

#### Answer

(i) Two adjacent angles are said to form a linear pair of angles if their non-common arms are two opposite rays.

 $\angle$ 1 and  $\angle$ 3

∠1 and ∠2

 $\angle 4$  and  $\angle 3$ 

 $\angle 4$  and  $\angle 2$ 

∠5 and ∠6

 $\angle$ 5 and  $\angle$ 7

 $\angle 6$  and  $\angle 8$   $\angle 7$  and  $\angle 8$ 

(ii) Two angles formed by two intersecting lines having no common arms are called vertically opposite angles.

 $\angle 1$  and  $\angle 4$ 

 $\angle 2$  and  $\angle 3$ 

∠5 and ∠8

 $\angle 6$  and  $\angle 7$