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:

$\angle EBA$ and $\angle ABC$
$\angle ACB$ and $\angle BCF$
$\angle BAC$ and $\angle CAD$

In figure (ii), the adjacent angles are:

$\angle BAD$ and $\angle DAC$
$\angle BDA$ and $\angle CDA$

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 $\angle 3$
$\angle 1$ and $\angle 2$
$\angle 4$ and $\angle 3$
$\angle 4$ and $\angle 2$
$\angle 5$ and $\angle 6$
$\angle 5$ 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 $\angle 3$
$\angle 5$ and $\angle 8$
$\angle 6$ and $\angle 7$

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