

Lines and angles Ex 14.1 Q13

Answer:

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

 $\angle 1$ and $\angle 2$

 $\angle 2$ and $\angle 3$

 $\angle 3$ and $\angle 4$

∠1 and ∠4

 $\angle 5$ and $\angle 6$

 $\angle 6$ and $\angle 7$

 $\angle 7$ and $\angle 8$

 $\angle 8$ and $\angle 5$

∠9 and ∠10

∠10 and ∠11

∠11 and ∠12

∠12 and ∠9

Two angles formed by two intersecting lines having no common arms are called vertically opposite angles

 $\angle 1$ and $\angle 3$

 $\angle 4$ and $\angle 2$

 $\angle 5$ and $\angle 7$

 $\angle 6$ and $\angle 8$

∠9 and ∠11

 \angle 10 and \angle 12

Lines and angles Ex 14.1 Q14

Answer:

Since OE is the bisector of ∠BOD,

Lines and angles Ex 14.1 Q15

Answer:

One angle of a linear pair is the right angle, i.e., 90°.

$$\therefore$$
 The other angle = $180^{\circ} - 90^{\circ} = 90^{\circ}$

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