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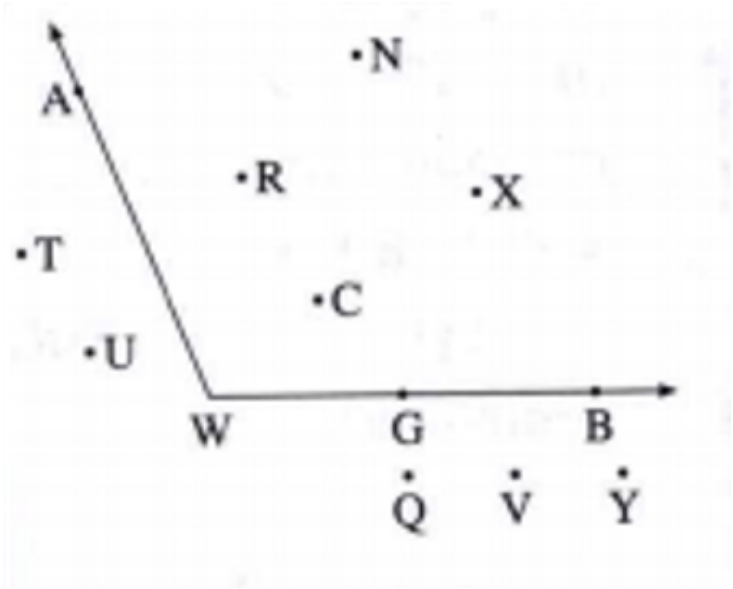
# MATHS

# BOOKS - NAVNEET PUBLICATION

# ANGLES AND PAIRS OF ANGLES

## Question Bank

**1.** Observe the figure and complete the table for $\angle$ AWB.

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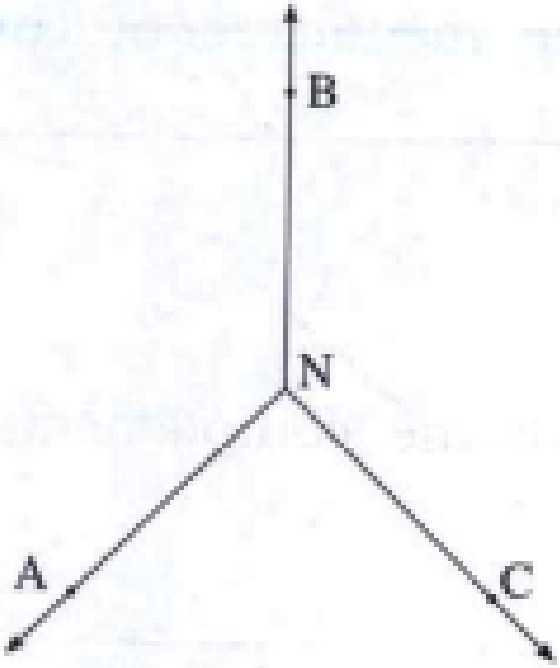
**2.** Name the pairs of adjacent angles in the figures given below :

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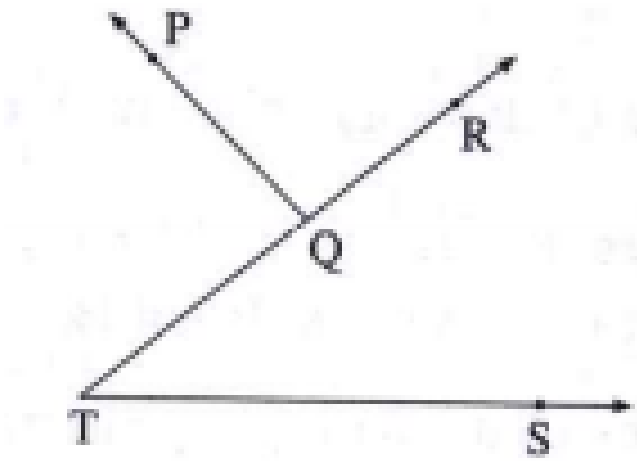
**3.** Name the pairs of adjacent angles in the figures given below :

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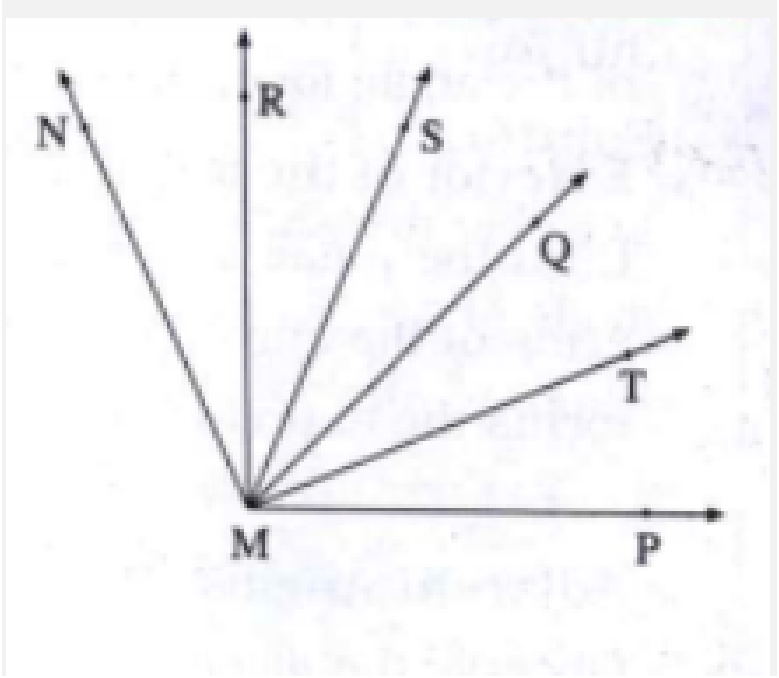
**4.** Are the following pairs of angle adjacent ? If not, state the reason.

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**5.** The measures of some angles are given below. Write the measures of their

complementary angles.

$40^\circ$

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**6.** The measures of some angles are given below. Write the measures of their complementary angles.

$63^\circ$

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**7.** The measures of some angles are given below. Write the measures of their complementary angles.

$45^\circ$

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**8.** The measures of some angles are given below. Write the measures of their complementary angles.

$55^\circ$

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**9.** The measures of some angles are given below. Write the measures of their complementary angles.

$20^\circ$

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**10.** The measures of some angles are given below. Write the measures of their

complementary angles.

$90^\circ$

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**11.** The measures of some angles are given below. Write the measures of their complementary angles.

$x^\circ$

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**12.** $(y-20)^\circ$ and $(y-30)^\circ$ are the measures of complementary angles. Find the measure of each angle.

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**13.** Write the measures of the supplements of the angles given below :

$15^\circ$

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**14.** Write the measures of the supplements of the angles given below :

$85^\circ$

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**15.** Write the measures of the supplements of the angles given below :

$120^\circ$

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**16.** Write the measures of the supplements of the angles given below :

$37^\circ$

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**17.** Write the measures of the supplements of the angles given below :

$108^\circ$

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**18.** Write the measures of the supplements of the angles given below :

$0^\circ$

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**19.** Write the measures of the supplements of the angles given below :

$a^\circ$

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**20.** In $\Delta$ XYZ, $m\angle Y = 90^\circ$. What kind of a pair do $\angle$ X and $\angle$ Z make ?

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**21.** The difference between the measures of two angles of a complementary pair is $40^\circ$. Find the measures of the two angles.

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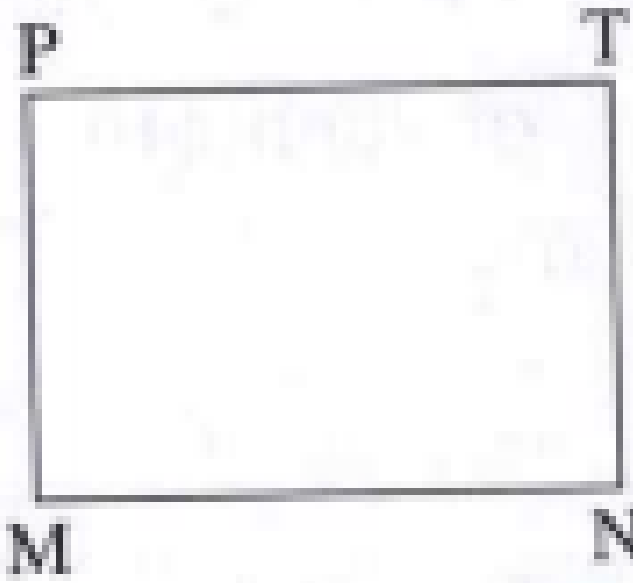
**22.** PTNM is a rectangle. Write the names of the pairs of supplementary angles.

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**23.** If $m\angle A = 70^\circ$. What is the measure of the supplement of the complement of $\angle A$ ?

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**24.** $\angle A$ and $\angle B$ are supplements of each other. If $m\angle B = (x + 20)^\circ$, then find $m\angle A$.

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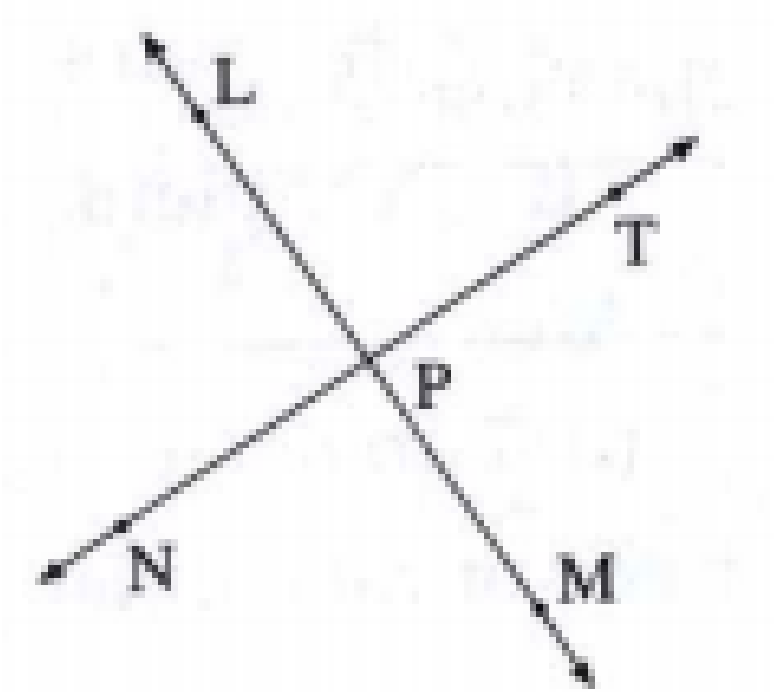
**25.** Name the pairs of opposite rays in the given figure.

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**26.** Are the rays PM and PT opposite rays ? Give reason for your answer.

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**27.** Draw the pairs of angles as described below. If that is not possible, say why ?

Complementary angles which are not adjacent.

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**28.** Draw the pairs of angles as described below. If that is not possible, say why ?

Angles in a linear pair which are not supplementary.

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**29.** Draw the pairs of angles as described below. If that is not possible, say why ?

Supplementary angles which are not angles in linear pair.

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**30.** Draw the pairs of angles as described below. If that is not possible, say why ?

Adjacent angles which are not in a linear pair.

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**31.** Draw the pairs of angles as described below. If that is not possible, say why ?

Angles which are neither complementarian nor adjacent.

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**32.** Draw the pairs of angles as described below. If that is not possible, say why ?

Angles in linear pair which are complementary angles.

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**33.** Line AC and line BD intersect each other in the point P. $m\angle APD = 47^\circ$. Find the

measures of $\angle APB$, $\angle BPC$, $\angle CPD$.

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**34.** Line PQ and line RS intersect each other in the point M. $m\angle PMR = x^\circ$. Find the measures of $\angle PMS$, $\angle SMQ$, and $\angle QMR$.

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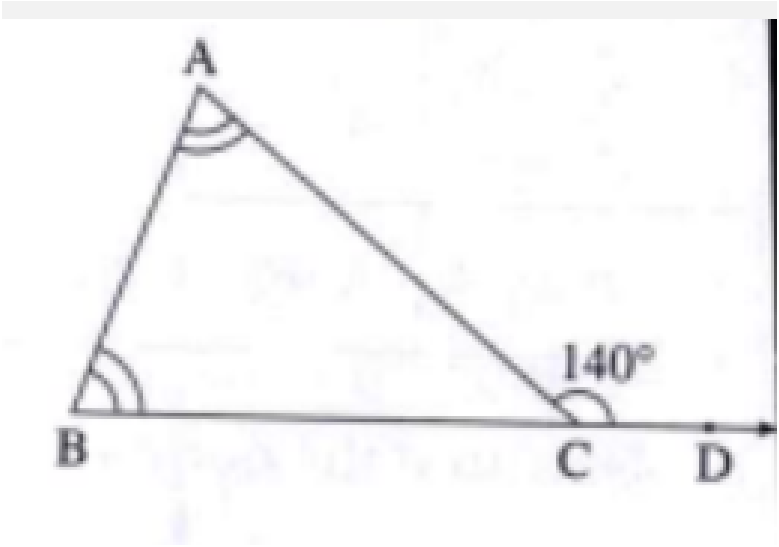
**35.** $\angle ACD$ is the exterior angle of $\Delta ABC$. The measures of $\angle A$and $\angle B$ are equal. If

$m\angle ACD = 140^\circ$, find the measures of $\angle A$ and $\angle B$

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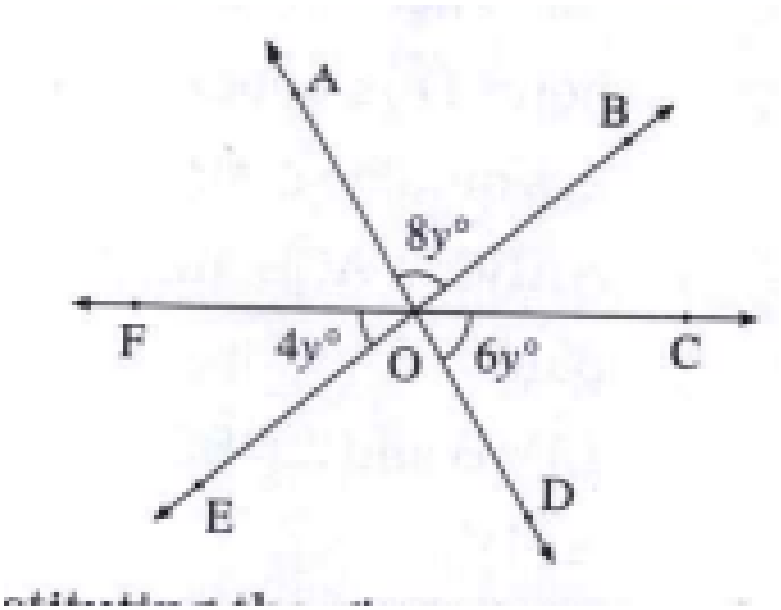
**36.** Using the measures of the angles given in the figure, find the measures of the remaining

three angles.

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**37.** The measure of $\angle A$ and $\angle B$ of an isosceles $\Delta ABC$ are equal. $\angle ACD$ is the exterior angle of $\Delta ABC$. The measures of $\angle ACB$ and

$\angle ACD$ are $(3x - 17)^\circ$ and $(8x + 10)^\circ$ respectively. Find the measures of $\angle ACB$ and $\angle ACD$. Also, find the measures of $\angle A$ and $\angle B$.

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**38.** What is the measure of the complementary angle of $35^\circ$.

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**39.** Name the points on arm QR of $\angle PQR$.

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**40.** In $\Delta PQR, \angle Q = 90^\circ$. What is the relation between $\angle P$ and $\angle R$ ?

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**41.** $m\angle ABC = 80^\circ$. What is the measure of its (i) complementary angle (ii) supplementary

angle?

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**42.** $\angle PQR$ and $\angle ABC$ are supplementary angles. If $m\angle PQR = 2m\angle ABC$, then what is the measure of $\angle ABC$ ?

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**43.** State whether the following statements are true or false :

Two acute angles can make a pair of supplementary angles.

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**44.** State whether the following statements are true or false :

An acute angle and an obtuse angle can make a pair of supplementary angles.

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**45.** State whether the following statements are true or false :

Two acute angles can be complements of each other.

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**46.** State whether the following statements are true or false :

A right angle can make a pair of complementary angle with other right angle.

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**47.** What is the sum of the measures of the interior angles of a decagon?

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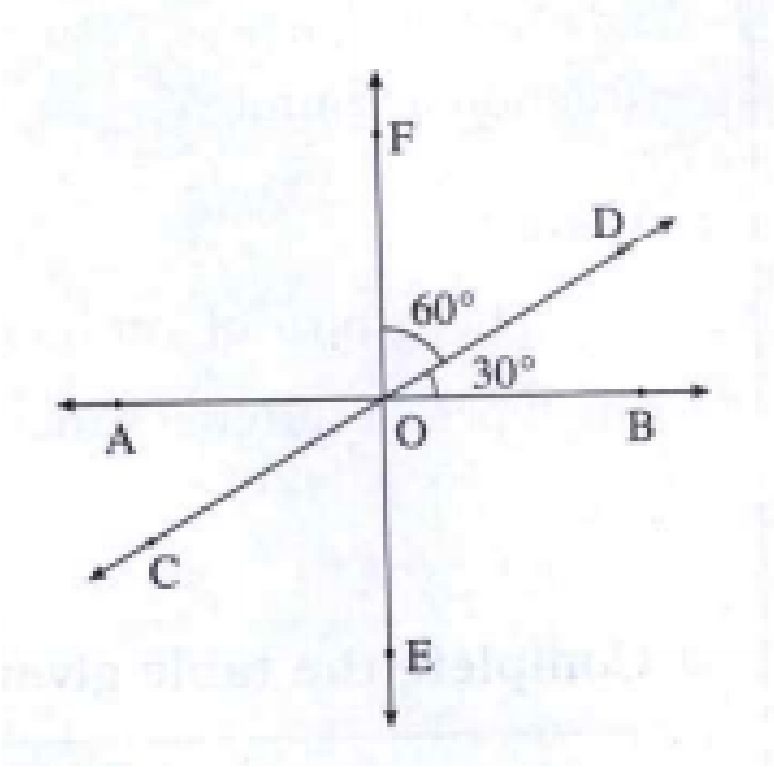
**48.** Observe the figure and answer the following questions :

What is the measure of $\angle AOC$?

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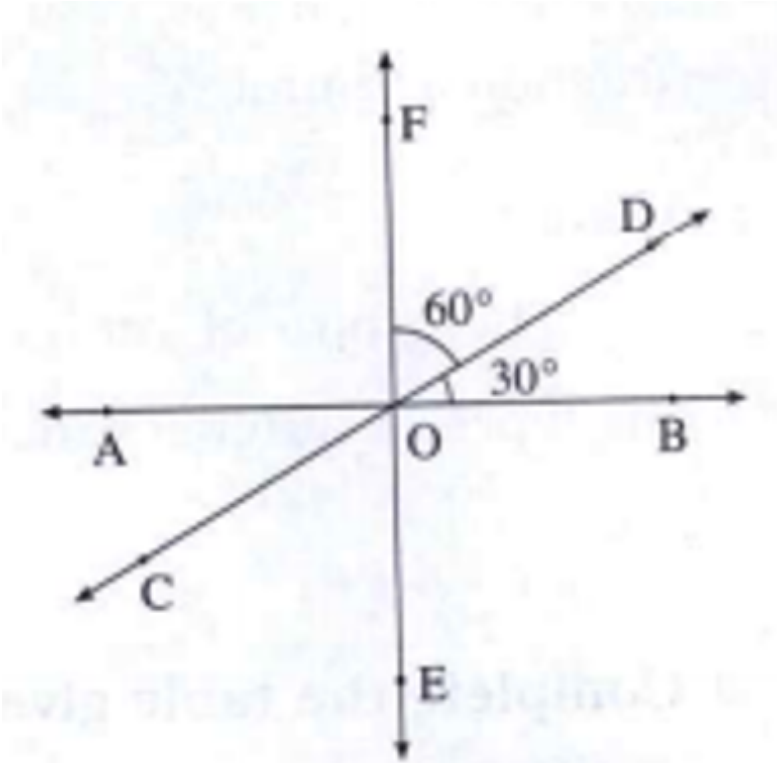
**49.** Observe the figure and answer the following questions :

Which angle is the complementary angle of $\angle FOD$ ?

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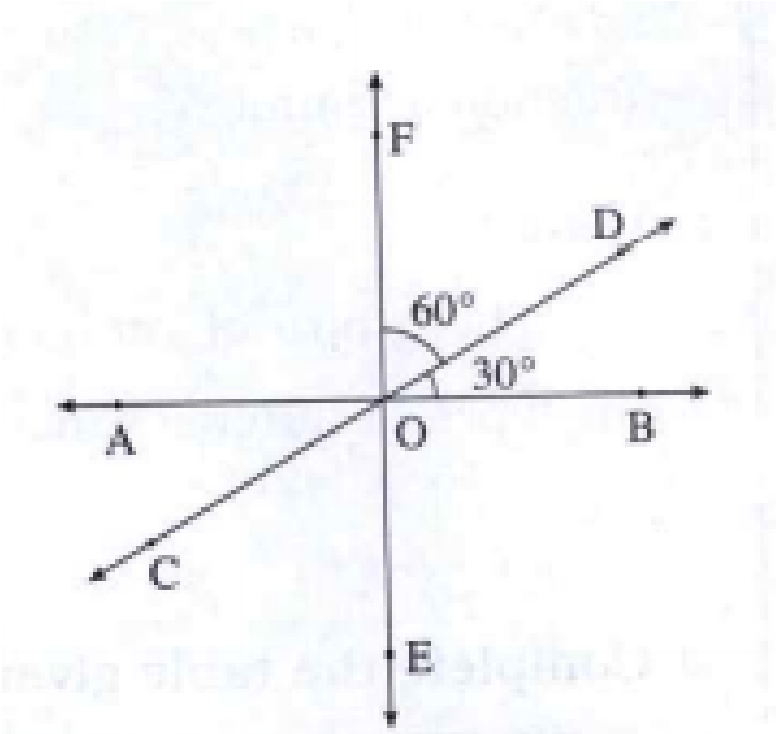
**50.** Observe the figure and answer the following questions :

What is $m\angle BOE$?

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