

CHAPTER 06

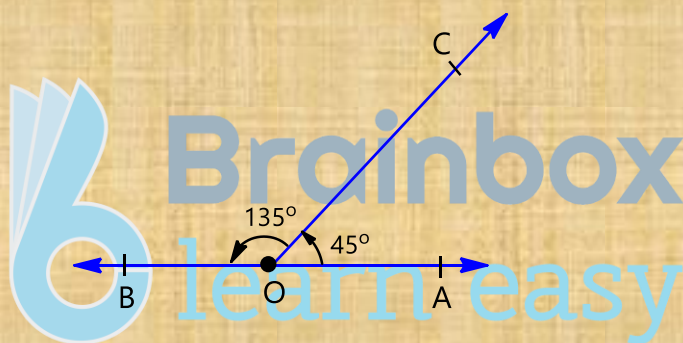
Lines and Angles

Supplementary angles:

Two angles are called supplementary, if the sum of their measure is equal to 180° .

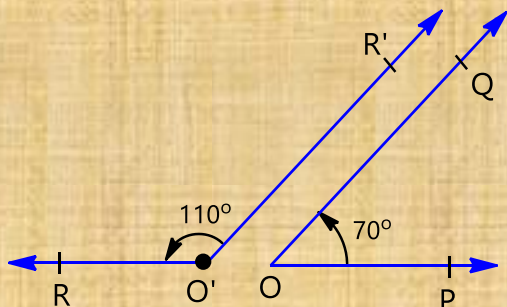
Example 01:

(i)



Note: $\angle AOC + \angle COB = 180^\circ$ (These are adjacent angles)

(ii)



Note: $\angle POQ + \angle R'O'R = 180^\circ$ (These are not adjacent angles)

Example 02:

Write the supplement of (i) 125° (ii) $8^\circ - x$.

Sol.

(i) Supplement of $125^\circ = 180^\circ - 125^\circ = 55^\circ$

(ii) Supplement of $8^\circ - x = 180^\circ - (8^\circ - x)$

$$= 180^\circ - 8^\circ + x$$

Supplement of $8^\circ - x = 172^\circ + x$

