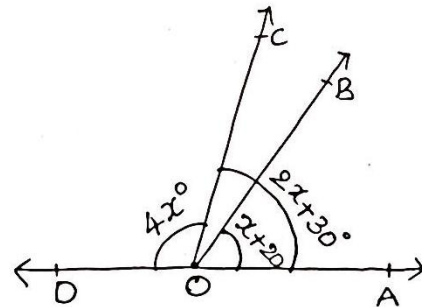


Grade- VIII

MATHS

1. 45°
2. Transversal
3. 108°
4. Pair of corresponding , pair of alternate
5. Doesn't exit

$$\begin{aligned}
 6. \quad \angle BOC &= \angle AOC - \angle AOB \\
 &= (2x + 30) - (x + 20) \\
 &= x + 10^\circ \\
 \angle COD + \angle BOC + \angle AOB &= 180^\circ \\
 4x + x + 10 + x + 20^\circ &= 180^\circ \\
 \boxed{x = 25^\circ} \\
 \angle AOB = 40^\circ, \angle BOC = 35^\circ, \angle COD = 100^\circ
 \end{aligned}$$



7. Draw a line passing through 'o' and parallel to AB
so, it is parallel to CD as $AB \parallel CD$
 $x = 360^\circ - [45^\circ + 30^\circ]$
 $= 285^\circ$

8. From fig
 $\angle 3 = 180^\circ - \angle 2$
 $\boxed{\angle 3 = 80^\circ}$
 $\angle 3 + \angle 4 + [180^\circ - \angle 1] = 180^\circ$
 $80^\circ + \angle 4 + 180^\circ - 120^\circ = 180^\circ$
 $\boxed{\angle 4 = 40^\circ}$

9. $a^\circ = 110^\circ$

[V. O .A]

$d^\circ = 85^\circ$

[V. O .A]

$a = b^\circ$

[corresponding angles]

$b = 110^\circ$

$l // m$

$d = c$

[corresponding angles]

$c = 85^\circ$

10. CD//EF as co-interior angles are supplementary

CD//AB as interior alternate angles are equal

So, AB//EF