23) $x^\circ + 5x^\circ + 85^\circ + 133^\circ + 80^\circ = 360^\circ$

complete angle

$6x^\circ + 288^\circ = 360^\circ$

$6x^\circ = 360^\circ - 288^\circ = 72^\circ$

$x = \frac{72}{6} = 12^\circ$

$\angle AOB = 5x^\circ = 5 \times 12^\circ = 60^\circ$

$\angle BOC = 12^\circ$ (Ans)

24) $2y + 2y + 3\frac{1}{2}y + 2\frac{1}{2}y = 360^\circ$

$= 4y + \frac{7}{2}y + \frac{4}{2}y = 360^\circ$

$= 10y = 360^\circ$

$y = \frac{360}{10} = 36^\circ$ (Ans)

~~AB = CD~~

25) $\angle AOC + \angle COE + \angle EOB = 180^\circ$

$y^\circ + \angle DOF + z^\circ = 180^\circ$ [linear pair]

[$= \angle COE$ ⊙ $= \angle DOF$ vertically opposite]

$\Rightarrow 45^\circ + x^\circ + 90^\circ = 180^\circ$ [$\angle DOF = x^\circ$]

$= x^\circ + 135^\circ = 180^\circ$

$x^\circ = 180^\circ - 135^\circ = 45$ (Ans)

ii) $x - 3a$, $y = 5a$, $z = 6x$

$y^\circ + x + z^\circ = 180^\circ$ (linear pairs)

$= 5x + 3a + 6x = 180^\circ$

$3a + 11x = 180^\circ$

$3a + 11(3a) = 180^\circ$

$3a + 33a = 180^\circ$

$36a = 180^\circ$

$a = \frac{180^\circ}{36} = 5^\circ$