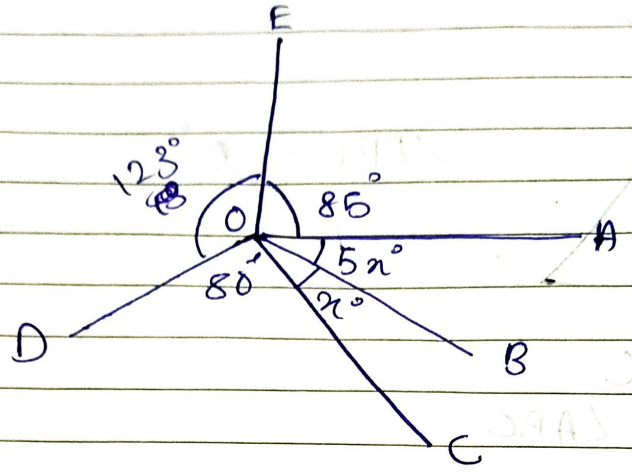
29/9/2021

lines and Angles

Homework 1

23)



$A = 85°$ (vertically opposite Angles)

$\angle AOB = B = 5°x$

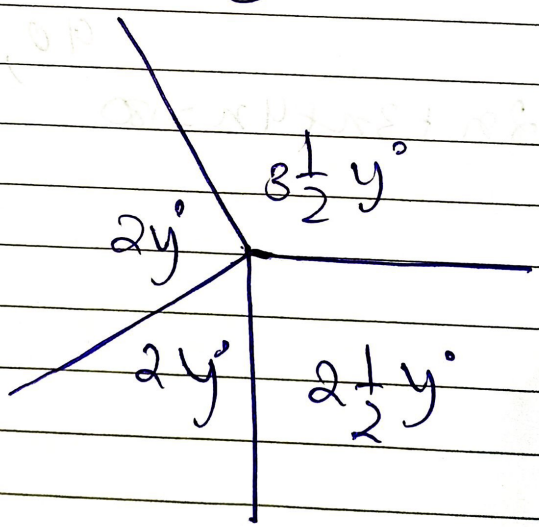
~~$= 85 + 5 = 90°$~~

$\angle AOB = \frac{360}{5} = 60°$ (Angles around a point)

$= 5x = 5 \times 12 = 60$

$x = \frac{60}{5} = 12$

24)



$3\frac{1}{2}y + 2y + 2y + 2\frac{1}{2}y = 360$ (Angles around a point)

$\frac{7}{2}y + 2y + 2y + \frac{5}{2}y = 360°$

$= \frac{7y + 4y + 4y + 5y}{2} = 360°$

$= \frac{20y}{2} = 360$

$= 20y = 360 \times 2 = 720$

$= y = \frac{720}{20} \quad 36$

$2y = 2 \times 36 = 72$

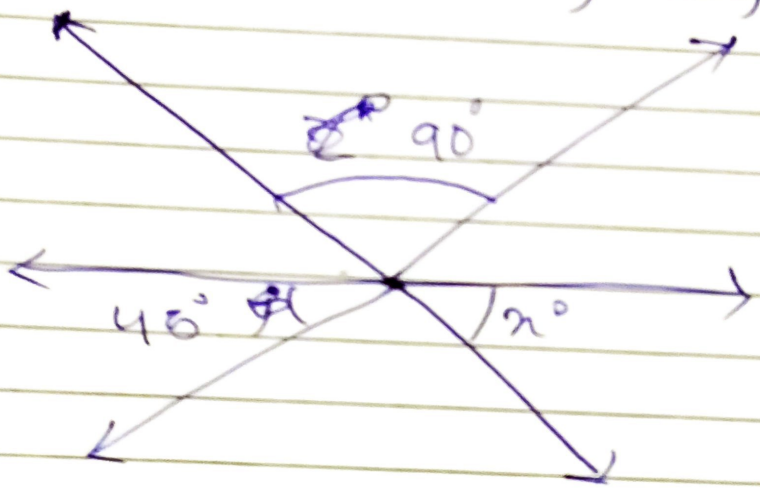
$2y = 2 \times 36 = 72$

$\frac{1}{2} y = \frac{1}{2} \times 36^{16} = 126$

$\frac{5}{2} y = \frac{5}{2} \times 36^{16} = 90$

The angles are : 72°, 72°, 126°, 90°

25)



i) $x = 45°$ (Vertically opposite Angle)

ii) $6x + 3y = 9xy$

$\frac{45}{9xy} = 5$