

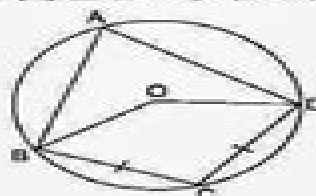
Question 3.

(a) Solve the inequation and represent the solution set on the number line.

$$-3 + x \leq \frac{8x}{3} + 2 \leq \frac{14}{3} + 2x, \text{ where } x \in I \quad [3]$$

(b) Find the value of p for which the lines

$$2x + 3y - 7 = 0 \text{ and } 4y - px - 12 = 0 \text{ are perpendicular to each other.} \quad [3]$$

(c) In the given figure O is the centre of the circle, $\angle BAD = 75^\circ$ and chord $BC =$ chord CD . Find : (i) $\angle BOC$ (ii) $\angle OBD$ (iii) $\angle BCD$. [4]**Solution :**

$$\begin{aligned} \text{(a)} \quad & -3 + x \leq \frac{8x}{3} + 2 \leq \frac{14}{3} + 2x, x \in I \\ & \begin{array}{l} -3 + x \leq \frac{8x}{3} + 2 \\ \frac{8x}{3} - x \geq -3 - 2 \\ \frac{8x - 3x}{3} \geq -5 \\ 5x \geq -15 \\ x \geq -3 \end{array} \quad \begin{array}{l} \frac{8x}{3} + 2 \leq \frac{14}{3} + 2x \\ \frac{8x}{3} - 2x \leq \frac{14}{3} - 2 \\ \frac{8x - 6x}{3} \leq \frac{14 - 6}{3} \\ \frac{2x}{3} \leq \frac{8}{3} \\ x \leq 4 \end{array} \end{aligned}$$

Solution set :

$$\{-3 \leq x \leq 4\}$$



(b) Given equation is

$$2x + 3y - 7 = 0$$

 $\Rightarrow$

$$3y = -2x + 7$$

 $\Rightarrow$

$$y = -\frac{2}{3}x + \frac{7}{3}$$

$$\text{Slope of the line } (m_1) = -\frac{2}{3}$$

Another equation is

$$4y - px - 12 = 0$$

 $\Rightarrow$

$$4y = px + 12$$

 $\Rightarrow$

$$y = \frac{p}{4}x + 3$$

$$\text{Slope of the line } (m_2) = \frac{p}{4}$$

Mathematics Grade 12 Exam Papers 2009

Clemens Wendtner



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