



The diagram shows a triangular piece of land  $PQR$  in which angle  $PQR = 90^\circ$ ,  $PQ = 8\text{ m}$  and  $QR = 12\text{ m}$ . A rectangle  $QUVW$  is to be used as the base of a greenhouse, where  $U$ ,  $V$  and  $W$  lie on  $QR$ ,  $RP$  and  $PQ$  respectively,  $QU = x\text{ m}$  and  $QW = y\text{ m}$ .

(i) Show that  $y = 8 - \frac{2x}{3}$ . [2]

(ii) Express the area,  $A\text{ m}^2$ , of the base of the greenhouse in terms of  $x$ . [1]

(iii) Given that  $x$  can vary, find the maximum value of  $A$ . [3]

**Solution:**

2. (i)  $\triangle PHV$  is similar to  $\triangle PQR$ .

$$\frac{PW}{PQ} = \frac{WV}{QR}$$

$$\frac{8-y}{8} = \frac{x}{12}$$

$$8-y = \frac{8x}{12}$$

$$8-y = \frac{2x}{3}$$

$$y = 8 - \frac{2x}{3} \text{ (shown)}$$

Use similar  $\Delta$  concept to solve part (i)

(ii)  $A = xy$

$$= x \left( 8 - \frac{2x}{3} \right)$$

$$= 8x - \frac{2x^2}{3}$$

(iii)  $\frac{dA}{dx} = 8 - \frac{4x}{3}$

$$\frac{dA}{dx} = 0$$

$$8 - \frac{4x}{3} = 0$$

$$\frac{4x}{3} = 8$$

$$4x = 24$$

$$x = 6$$

$$\frac{d^2A}{dx^2} = -\frac{4}{3} < 0$$

$$\therefore A \text{ is maximum at } x = 6.$$

$$\text{When } x = 6,$$

$$A = 8(6) - \frac{2(6)^2}{3}$$

$$= 48 - 24$$

$$= 24 \text{ m}^2$$

To find the maximum value of  $A$ , find  $\frac{dA}{dx} = 0$ . Then substitute value of  $x$  into  $A$ .

# Gce O Level Mathematics Paper 2 2012 Answers

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