



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) $\triangle P WV$ 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 Δ
concept to
solve part (i)

(ii) $A = xy$

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

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

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

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

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

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

$$4x = 24$$

$$x = 6$$

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

$\therefore A$ is maximum at $x = 6$.

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 .

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