

$$V = (2x)(x)(y)$$

$$81 = 2x^2y$$

$$y = \frac{81}{2x^2}$$

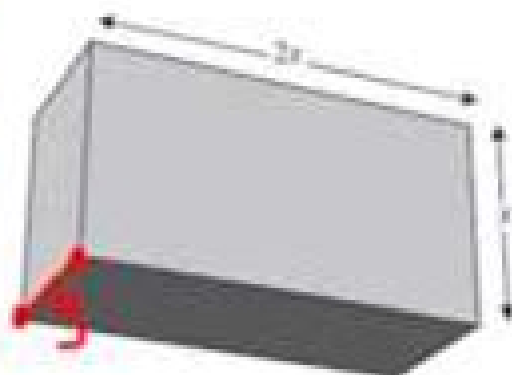


Figure 2

A cuboid has a rectangular cross-section where the length of the rectangle is equal to twice its width, x cm, as shown in Figure 2.

The volume of the cuboid is 81 cubic centimetres.

(a) Show that the total length, L cm, of the twelve edges of the cuboid is given by

$$L = 12x + \frac{162}{x^2}$$

(b) Use calculus to find the minimum value of L .

(c) Justify, by further differentiation, that the value of L that you have found is a minimum.

12 edges

$$4 \times (2x)$$

+

$$4 \times (x)$$

+

$$4 \times \left(\frac{81}{2x^2} \right)$$

$$\therefore L = 8x + 4x$$

$$+ \frac{162}{x^2}$$

$$L = 12x + \frac{162}{x^2}$$

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Yijin Wang



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