

Given that x can vary,

(b) use calculus to find the maximum value of V , giving your answer to the nearest cm^3 .

$$2x^2 + 2xy + xy = 300$$

$$2x^2 + 3xy = 300$$

$$3xy = 300 - 2x^2$$

$$y = \frac{300}{3x} - \frac{2x^2}{3x}$$

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