

Mr. C. Sdoutz

**Unit 3: Applications of Differentiation**  
**3.7 Optimization Problems**

Optimization problems – finding extrema for application questions

ex. The product of two positive whole numbers is 72. Find the numbers such that the sum of the first and twice the second is minimized.

ex. An open box (no lid) with a square base is to be constructed using  $108 \text{ cm}^2$  of material. What dimensions will produce maximum volume for the box?

Practice Questions

Pg. 210/# 3, 6, 7, 9, 15, 16, 17c, [21, 28], 31, [37], 39



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