4-4 day 2 Opmizaon:

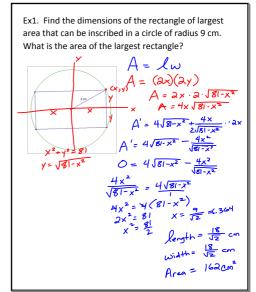
Inscribing

Learning Objecves:



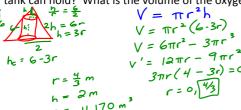
I can use derivaves to idenfy to opmize quanes in real world situaons.

Oct 29-11:10 AM



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Ex2. The nose of rocket is a cone which is 6m high and has a radius of 2m. An oxygen tank is the shape of a cylinder and needs to be placed into the nose cone of the rocket. What dimensions should be used for the oxygen tank to maximize the volume of oxygen that the tank can hold? What is the volume of the oxygen tank?



Homework

pg 226 # 5, 6, 15, 20-22, 32, 36-38,

46, 55, 56 $V = \frac{1}{4}(b_1 + b_2)b \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$ $V = \frac{1}{4}(1 + 1 + 2\sin b) \cdot 20$

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