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Open Box With Square Base: Figure 3.53  $S \times 2 \times 4 \times h = 108$  You Can Verify Your Answer In Example 1 By Using A Graphing Utility To Graph The Volume Function Use A Viewing Window In Which And And Use The Maximum Or Trace Feature To Determine Feb 2th, 2024

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A Rectangle Has Its Base On The X-axis And Its Upper Vertices On The Parabola The Area Of A Rectangle Is  $0 \sqrt{+ 0}$  - Local Max Or Min Local Max  $0 32 0$  ... You Are Planning To Make An Open Rectangular Box From An 8 By 15 Inch Piece Of

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The Rectangle Has Dimensions 1.26 By 6. 6) A Box Is To Be Constructed Where The Base Length Is 3 Times The Base Width. The Material Used To Build The Top And Bottom Cost \$10 Per Square Foot And The Material Used To Build The Sides Cost \$6 Per Square Foot. If The Bo May 4th, 2024

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Folding-Sides-to-Get-a-Box Problems 16. A Sheet Of Cardboard 3 Ft. By 4 Ft. Will Be Made Into A Box By Cutting Equal-sized Squares From Each Corner And Folding Up The Four Edges. What Will Be The Dimensions Of The Box With Largest Volume? 17. Max Wants To Make A Box With No Lid From A Rectangular Sheet Of Apr 3th, 2024

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3. A closed-top rectangular container with a square base is to have a volume  $300 \text{ in}^3$ . The material for the top and bottom of the container will cost  $\$2$  per  $\text{in}^2$ , and the material for the sides will cost  $\$6$  per  $\text{in}^2$ . Find the dimensions of the container of least cost. What is that cost? 4. An O Feb 2th, 2024

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AP CALCULUS Name\_\_\_\_\_ Date\_\_\_\_\_ Period\_\_\_\_\_ ©a L2X0r1 J4w TK SuOtEac  
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Re4d O.5 Optimization Problems Practice Solve each optimization problem. 1) A  
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