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Multivariable Calculus 1: Vectors and Derivatives

Help   sandipan_dey ⌄

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🏠 Course / Unit 3: Optimization / Recitation 11: Practice with Lagrange Multiplier Problems   🕐

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2. Worked example

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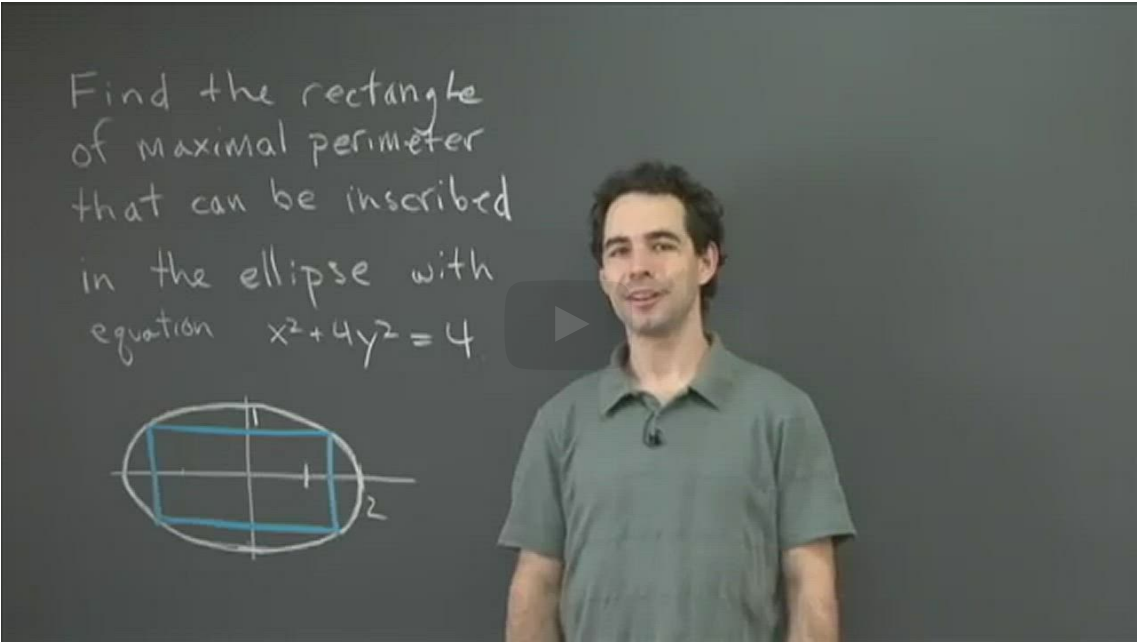
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Reflect

Pause the video below when prompted. Try to work through the problems on your own. Then press play and compare your answers to the answers provided in the video.

Worked example recitation video

Start of transcript. Skip to the end.

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PROFESSOR: Hi.

Welcome back to recitation.

In lecture, you've been learning about how

to solve multivariable optimization problems using

the method of Lagrange multipliers,

and I have a nice problem here for you

that can be solved that way.

▶ 0:00 / 0:00   ▶ 2.0x   🔊   ✕   CC   ❞

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💬 (laughing) just realized I optimized area rather than perimeter   3
I very neatly and systematically used the Lagrange multiplier approach on this problem, only to realize at the end that I had maximiz...

💬 [Rec 11-2] (Spoiler) plot   9
👤 Community TA

💬 Necessity to check boundary points ?   4
In the recitation example, originally I felt it's not necessary to check end points -- (x_0, 0) and (0, y_0). Then when I looked that som...

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