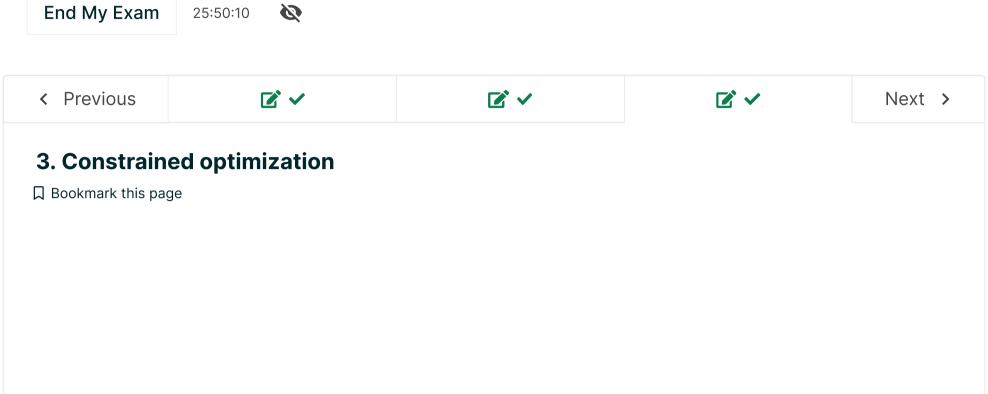


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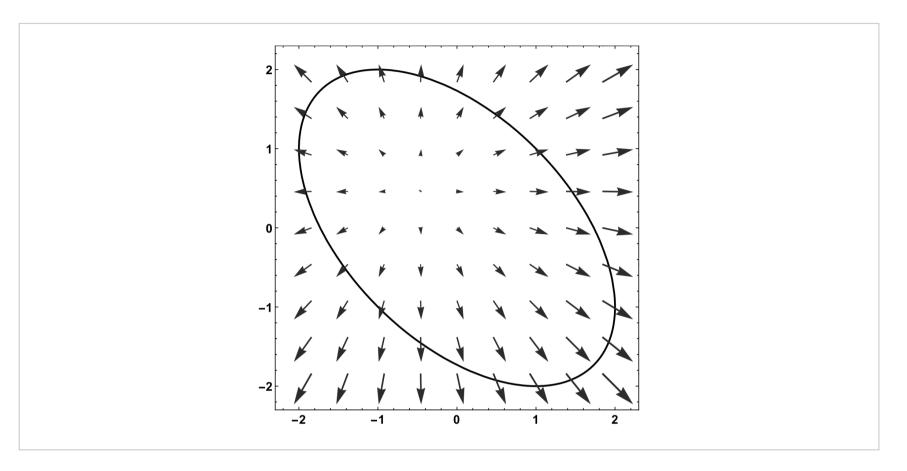


Explore

The gradient of a function inside a region

1.0/1 point (graded)

The following picture shows the gradient of a function f.



Let $oldsymbol{R}$ be the region inside of the curve.

Find the point inside $oldsymbol{R}$ where $oldsymbol{f}$ is minimal.

(Enter a point as an ordered pair inside of round parentheses. For example type (0,0) to denote the point at the origin (0,0).)

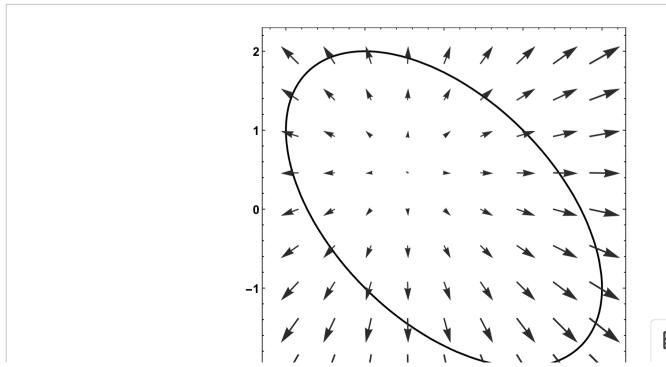
(-1/2,1/2)

Submit

You have used 2 of 5 attempts

The behavior of the function on the boundary

1/1 point (graded)



■ Calculator

Hide Notes

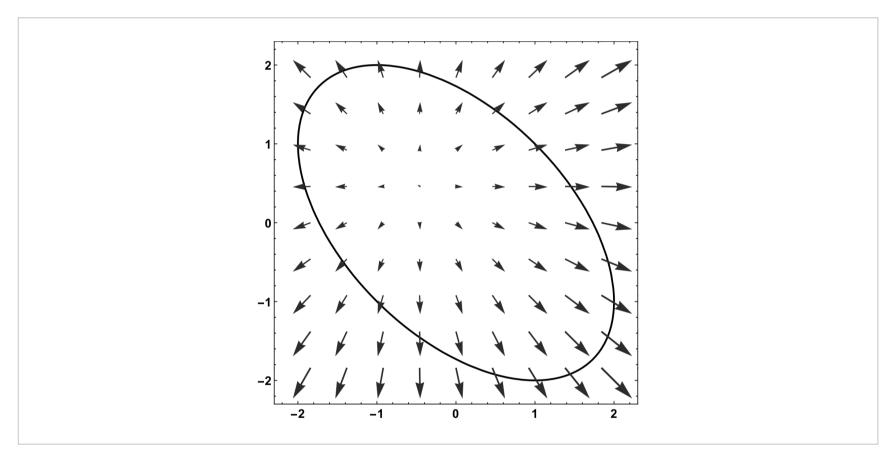


There is a point on the boundary of R with coordinates roughly (1.5, .5). If you start at this point and travel along the boundary counter-clockwise, does the function f increase or decrease?

f increases
 f decreases
 f neither increases nor decreases
 ✓
 Submit You have used 1 of 2 attempts

The gradient of a function inside a region

1.0/1 point (graded)



Find the point inside or along $m{R}$ where $m{f}$ is maximal.

(1.8,-1.8)

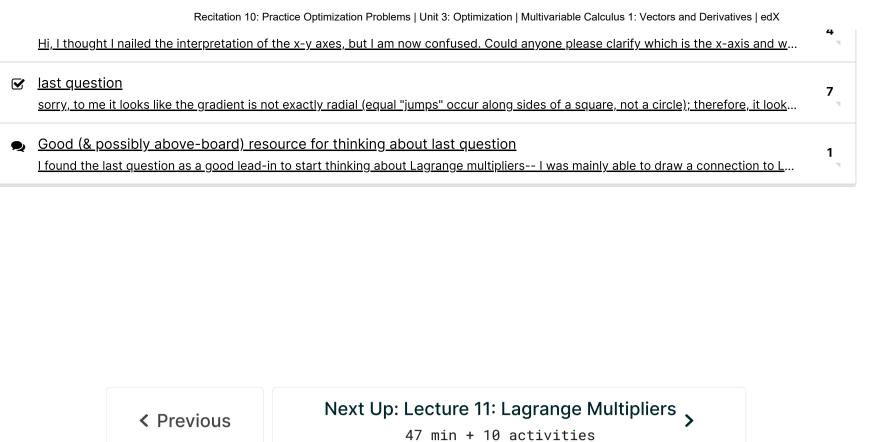
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3. Constrained optimization

Topic: Unit 3: Optimization / 3. Constrained optimization

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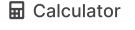
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