

Section 4.7 - Optimization

Steps to Solve

1. understand the problem, what has to be maximized or minimized?
2. identify variables, draw a picture
3. identify equations - m equation (max or min)
- eq w/ variables
4. express the m eq all in Δ terms (all x or all y)
- use 2nd eq.
5. Find the absolute max or min
- take derivative
- critical #'s
6. Use 2nd derivative to double check if min or max
7. sub back in for other values
8. get total max or min

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