MA 104

Lesson 50 Extreme Values

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1. Find the absolute maximum and minimum values of $f(x, y) = 3 + xy - x - 2y$ on the set D, where D is the triangular region with vertices $(0, 0)$, $(2, 0)$, and $(0, 3)$.

2. Find the points on the surface $z = \sqrt{(x-1)^2 + (y-2)^2}$ that are closest to the origin.

3. Do number 50, page 932. Set $V = 300$ cubic feet and assume that glass costs \$1.00 per square foot.

4. Find the function to maximize, the constraint, and the domain in problem 52.