

**Problem Set 1****Calculus 3****Due 8/27/2004**

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 5 points. For full credit indicate clearly how you reached your answer. All work must be legible and submitted on clean paper without ragged edges.

1. Have Maple generate a graph of the function  $f(x,y) = x^3 - x + y^2$ . Figure out the coordinates of the “dip” and the “saddle”.
2. Have Maple generate a graph of the function  $f(x,y) = x^3 - xy + y^2$ . Figure out the coordinates of the “bump”. Is there a “dip”?
3. Do §12.1 #28. Some descriptions are much better than others!
4. Do §12.1 #34.

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