ENGS 104 Optimization

Prof. Cybenko

Thayer School, Dartmouth gvc@dartmouth.edu

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Find the minima of:

$$f(y_1, y_2) = 121(2 - y_1^2 - y_2^2 - 3y_1 - 3y_2 + 2y_1y_2)^2 + (y_1 - y_2)^2$$