

TI-83 Lab 10 For Mathematics 223**Topics:** extrema**Derivatives.** Find relative minimum of $f(x) = 2x^3 + 3x^2 - 36x$ for $-10 \leq x \leq 10$.

1. Type function into “Y₁ =”.
2. GRAPH, then 2nd CALC, choose minimum
 - in response to “left bound?”, arrow cursor to left side of minimum, ENTER
 - in response to “right bound?”, arrow cursor to right side of minimum, ENTER
 - in response to “guess?”, arrow cursor close to minimum, ENTER

calculator gives $X = 1.9999$ and $Y = -44$