

Quiz #22

Name: Key

You must show your work to get full credit.

Let

$$f(x) = \frac{x + x^3}{3^{x-1}}.$$

For $0 \leq x \leq 6$ use your calculator to find

$\backslash Y = (x + x^3) / 3^{(x-1)}$ The maximum of $f(x)$ 3.488

$$x_{\min} = 0$$

$$x_{\max} = 6$$

The minimum of $f(x)$ 0

The maximizer of $f(x)$ 2.475

The minimizer of $f(x)$ 0

From the graph we see that the minimizer is $x=0$ and that the minimum is $f(0)=0$

For maximum we 2nd calc maximum

