

4.2 Extreme Values

Use a graphing calculator to graph the function and its derivative. Find the absolute extrema of the function on the closed interval.

1. $f(x) = \frac{6x}{x^2+1}$ [0,4]



Max _____ Min _____

2. $f(x) = \frac{6x}{\sqrt{x^2+5}}$ [0,2]



Max _____ Min _____

3. $f(x) = x^3 - 12x$ [-3,3]



Max _____ Min _____

4. $f(x) = \sqrt{x^2+1} - x$ [1,3]



Max _____ Min _____