

Explore!

Store $f(x) = x^3 - x^2 - 4x + 4$ into Y1 and $f'(x)$ (via the numerical derivative) into Y2 using the bold graphing style and a window size of $[-4.7, 4.7]_1$ by $[-10, 10]_2$. How do the relative extrema of $f(x)$ relate to the features of the graph of $f'(x)$? What are the largest and smallest values of $f(x)$ over the interval $[-2, 1]$?