

1. (10 pts) Sketch the graph of $f(x) = -2 \sin(x) \cos(x) - x$ on the interval $[0, 2\pi]$.
2. (10 pts) Sketch the graph of $f(x) = \frac{2x^2 - x - 10}{x - 2}$
3. (10 pts) Sketch the graph of $f(x) = x^3 - 3x^2 + 2x$. Show all extremes and any inflection points. I will expect accuracy to the 3rd decimal place.