1. Carefully sketch the graph of \( f(x) = 6xe^{-0.5x} \), being sure to include the coordinates of all critical points and inflection points.
2. Carefully sketch the graph of \( f(x) = x^3 - 3x + 1 \), being sure to include the coordinates of all critical points and inflection points.
3. Find the absolute maximum and minimum values of \( f(x) = 2x^3 + 3x^2 - 12x \) on the interval \([0, 2]\).
4. Carefully sketch the graph of $f(x) = 2x - \tan x$ on the interval $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$, being sure to include the coordinates of all critical points and inflection points.