

Math 1700 Extra Problems for Section 5.4

Find all relative maxima, relative minima, and points of inflection for the following functions. Then sketch the functions.

1) $f(x) = xe^{-x^2/2}$

2) $h(x) = \frac{\ln(x)}{x}$

3) $g(t) = \frac{e^t + e^{-t}}{2}$

4) $f(w) = e^{-w^2/2}$