

name: _____

1. (*4 points each*) For the following functions, determine the location and value of the absolute extreme values on the given interval, if they exist.

(a) $f(x) = \frac{x}{(x^2 + 3)^2}$ on $[-2, 2]$

(b) $f(x) = x^4 - 4x^3 + 4x^2$ on $[-1, 3]$