

QUIZ 9

Name _____

1. Find $\lim_{x \rightarrow \infty} \frac{\ln(x)}{x^2}$

2. Find the absolute extrema of $f(x) = x^4 - 8x^2 + 2$ on the interval $[-1, 3]$.

3. Find all the critical numbers for $y = \frac{x}{x^2 - 1}$ and classify these critical numbers (as max/min) using the first derivative test.