

Quiz 5 Calculus 1 3/17/2006

Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Find the absolute maximum and absolute minimum values of $f(x) = x^3 + 3x^2 - 24x$ on the interval $[-5, 4]$.

2. Find the absolute maximum and absolute minimum values of $g(x) = \frac{\ln x}{x}$ on the interval $[0, 2]$.