

Math101 Calculus I Term 072

Quiz 1

Name:

ID #:

Section #:

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1. Find $\lim_{t \rightarrow -3} \frac{(t^2 - 9)}{(2t^2 + 7t + 3)}$, if it exists.
2. If $4x \leq f(x) \leq x^4 + 3$ for $0 \leq x \leq 2$, find $\lim_{t \rightarrow 1} f(x)$.
3. Use the ε, δ definition of limit to prove that $\lim_{x \rightarrow 3} \left(5 - \frac{4x}{3}\right) = 1$.