

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 101.12 Quiz I 071

ID #: _____ NAME: _____

Serial # _____ Section #: _____

1. If $1 \leq f(x) \leq x^2 + 2x + 2$, find $\lim_{x \rightarrow -1} f(x)$.

2. If $\lim_{x \rightarrow -2} \frac{f(x) - 5}{x - 2} = 3$, find $\lim_{x \rightarrow 2} f(x)$.

3. Prove that $\lim_{x \rightarrow 2} (2x + 5) = 9$.

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 101.18 Quiz I 071

ID #: _____ NAME: _____

Serial # _____ Section #: _____

1. If $3 \leq f(x) \leq x^3 + 2$ for $0 \leq x \leq 2$, evaluate $\lim_{x \rightarrow 1} f(x)$.

2. If $\lim_{x \rightarrow 0} \frac{f(x)}{x^2} = -2$, find $\lim_{x \rightarrow 0} f(x)$ and $\lim_{x \rightarrow 0} \frac{f(x)}{x}$.

3. Prove that $\lim_{x \rightarrow 2} (5x + 4) = 14$.