

King Fahd University of Petroleum & Minerals

Math 101 - Sec. 14

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Quiz # 2

Semester 041

Time: 10 minutes

Name:

ID #:

Section #:

Draw a possible graph of a function $f(x)$ such that:

1. $f(0) = 3$
2. $f(2) = -1$
3. $\lim_{x \rightarrow 0^-} f(x) = 3$
4. $\lim_{x \rightarrow 1^+} f(x) = 5$
5. $\lim_{x \rightarrow 2} f(x) = 4$
6. $f(x)$ has vertical asymptotes $x = 0$ and $x = 1$
7. $f(x)$ has horizontal asymptotes $y = 2$ and $y = -2$