King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 101 (151) Sec 01 - Quiz 1

Name:                                 ID:                        Serial No.:
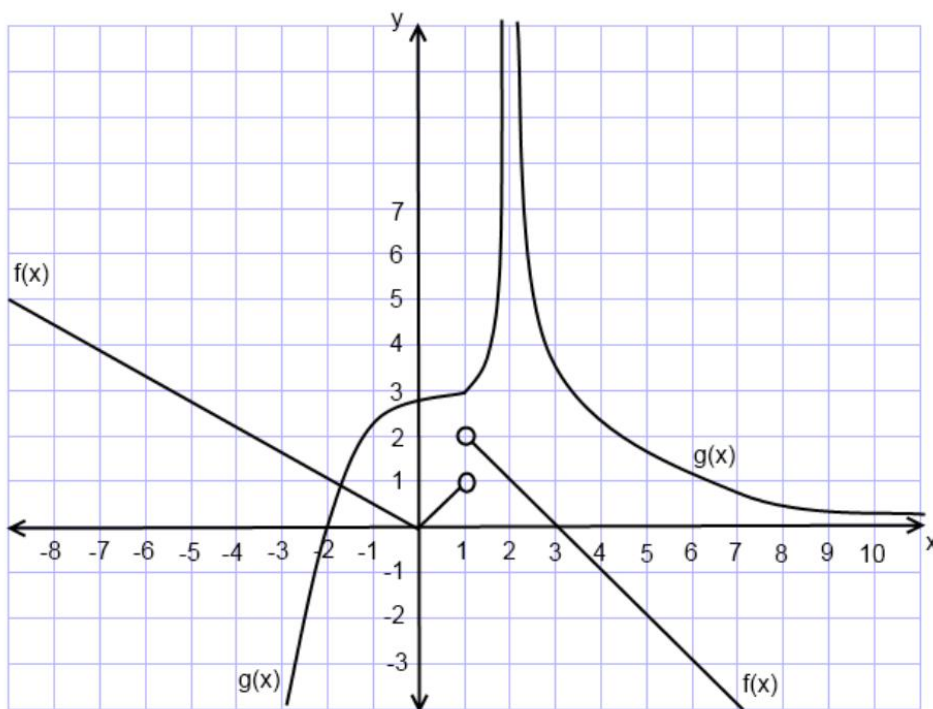
1. Find $\lim\limits_{x \to -3^+} \dfrac{x}{\sqrt{x+3}}$

2. $\lim\limits_{x \to \frac{7}{2}^+} \dfrac{[2x-5]}{2x-5}$

3. $\lim\limits_{x \to 2^-} \dfrac{x^2-4}{|x-2|}$

4. $\displaystyle\lim_{x \to 2} \frac{\sqrt{x+7}-3}{x^3 - 4x}$

5. $\displaystyle\lim_{x \to -2} \frac{\frac{1}{x} + \frac{1}{2}}{x^3 + 8}$

6. Evaluate the following limits, if they exist. If they do not exist explain why. Use the symbols $+\infty$ or $-\infty$ as appropriate:



- $\lim\limits_{x \to 1^+} f(x) - g(x)$

- $\lim\limits_{x \to 1^-} f(x) \times g(x)$

- $\lim\limits_{x \to 2} \dfrac{f(x)}{g(x)}$

- $\lim\limits_{x \to -2} \dfrac{3f(x) - g(x)}{3 + g(x)} =$