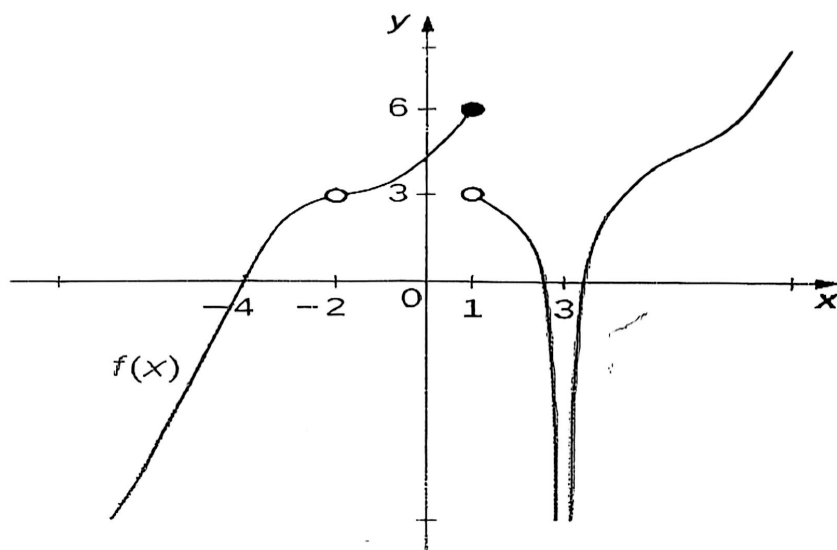


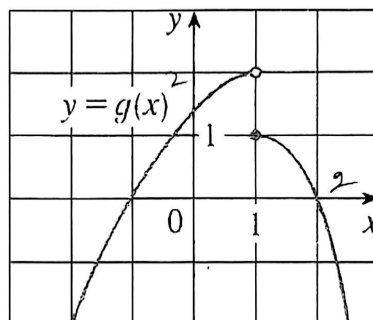
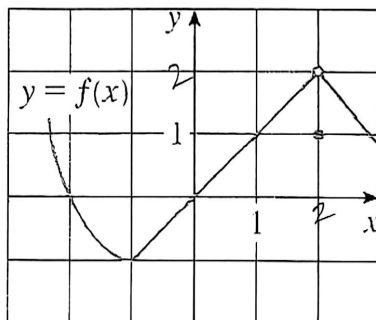
Math-1151 Class Test 02 Section BA

1. Consider the following graph of $f(x)$ for the followings.



- (i). Discuss the limit at $x = -2, 1$, and 3 . [3]
- (ii). Find the point of discontinuities in the given figure and classify them. [3]
- (iii). Identify the vertical and horizontal asymptotes. [1]
- (iv). Find $f(-2)$ and $f(1)$. [1]

2. The graphs of $f(x)$ and $g(x)$ are given below. Now find the followings. [2]



- (i). $\lim_{x \rightarrow 2} [g(x)]^2 - f(x)$
- (ii). $\lim_{x \rightarrow 1} \left[\frac{1}{\sqrt{1-f(x)}} \right]$