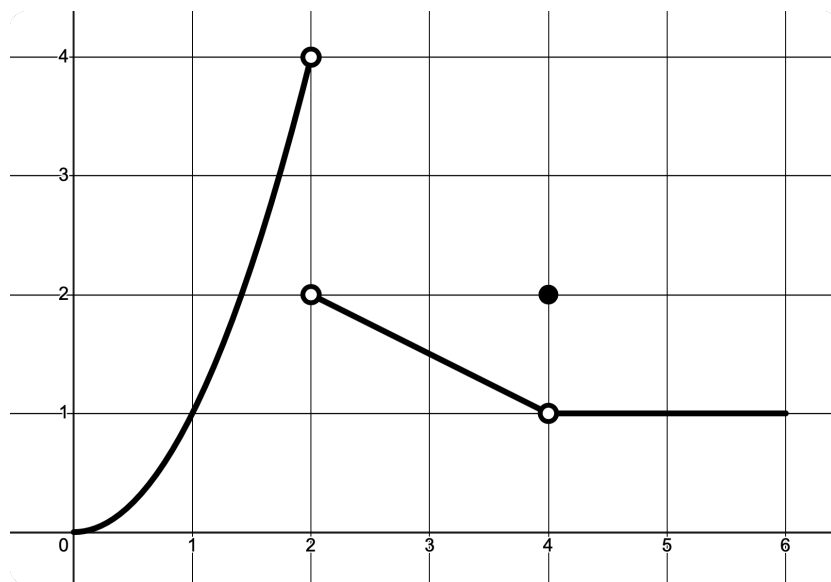# Quiz 1

Honor Code: On my honor, I have neither given nor received any aid during this examination.

Instruction: You are not allowed to use a calculator during this examination. You need to show all necessary steps to get credit. This document is **double-sided**.

Name: _____

Problem 1

The graph of $f(x)$ is given above, find the following:

1. $\lim_{x \to 4} f(x) = $ _____

2. $\lim_{x \to 2} f(x) = $ _____

3. $\lim_{x \to 2^-} f(x) = $ _____

4. $f(4) = $ _____

Problem 2

Calculate the following limits, show your work.

1. $\displaystyle\lim_{x\to-4} \frac{\sqrt{x^2+9}-5}{x+4}$

2. $\displaystyle\lim_{x\to1^-} \frac{|1-x|}{x^2-1}$