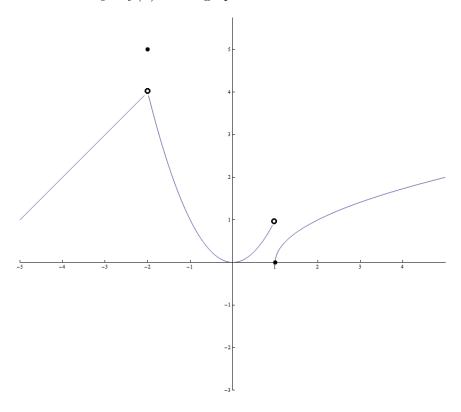
YOUR NAME:____

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Consider the function y = f(x) whose graph is sketched below: Find the following:



$$f(-2) = f(1) =$$

$$\lim_{x \to -2^{-}} f(x) = \lim_{x \to 1^{-}} f(x) =$$

$$\lim_{x \to -2^{+}} f(x) = \lim_{x \to 1^{+}} f(x) =$$

$$\lim_{x \to -2} f(x) = \lim_{x \to 1} f(x) =$$

2. Compute the following limits:

(a)
$$\lim_{x \to 3} \frac{x^2 + 1}{x - 1} =$$

(b)
$$\lim_{x \to 2} \frac{x^2 + 5x - 14}{x^2 - x - 2} =$$

(c)
$$\lim_{x\to 8} \frac{x-8}{\sqrt{3x+1}-5} =$$