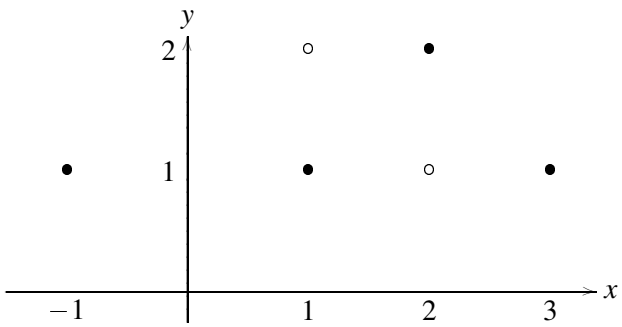
MTH 132 Quiz # 1	Spring 99–Sec. 20 Corso	Name: _____	Please, be neat and show all your work; circle your answer.

1. For the function $f(x)$ graphed below

pts: /3



find the following limits or explain why they do not exist:

$\lim_{x\longrightarrow 2} f(x) =$ _____ $\lim_{x\longrightarrow 1} f(x) =$ _____ $\lim_{x\longrightarrow 0} f(x) =$ _____

Compute the following limits:

2. $\lim_{x\longrightarrow 1} \dfrac{x^2+x-2}{x^2-1} =$ _____

pts: /3

3. $\lim_{h\longrightarrow 0} \dfrac{\sqrt{x+h}-\sqrt{x}}{h} =$ _____

pts: /2

4. Show that $\lim_{x\longrightarrow 3} \sqrt{x+1} = 2$ using the ε-δ definition.

total pts: /10

pts: /2