Name $\qquad$ Solutions Quiz 2, Calculus 1

1) Using the graph of $y=f(x)$ to the right, find each of the following.
$\lim _{x \rightarrow 2^{-}} f(x)=4$
$\lim _{x \rightarrow 1} f(x)=4$
$\lim _{x \rightarrow 2} f(x)=$ Does not exist
2) Find $\lim _{x \rightarrow 3} \frac{x^{2}-x+2}{x-1}=\frac{3^{2}-3+2}{3-1}=\frac{8}{2}=4$
3) Use the graph to the right to estimate the average rate of change between $x=-1$ and $x=3$.

It looks to be approximately $2 / 3$ rds.
(True answer: 0.6 . Full credit for anything between 0.3 and 0.9 )
4) Use the graph to the right to estimate the instantaneous rate of change at $x=0$.

It looks to be approximately -1 .
(True answer: -1.2 . Full credit for anything between -0.8 and -1.6 )


