1) Using the graph of \( y = f(x) \) to the right, find each of the following.

\[
\lim_{{x \to 2}} f(x) = 4
\]

\[
\lim_{{x \to 1}} f(x) = 4
\]

\[
\lim_{{x \to 2}} f(x) = \text{Does not exist}
\]

2) Find \( \lim_{{x \to 3}} \frac{x^2-x+2}{x-1} = \frac{3^2-3+2}{3-1} = \frac{8}{2} = 4 \)

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 \( \frac{2}{3} \)rd.
(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 \(-1.6\))