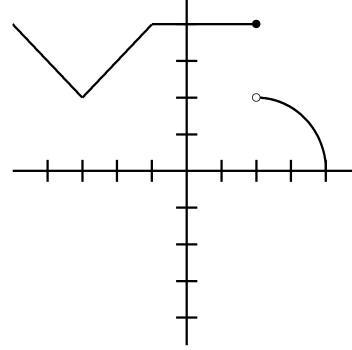
1) Using the graph of y = f(x) to the right, find each of the following.

$$\lim_{x\to 2^-} f(x) = 4$$

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

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



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 2/3rds.

(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)

