

Written Assignment 1

Name: _____

Date: _____

Section: _____

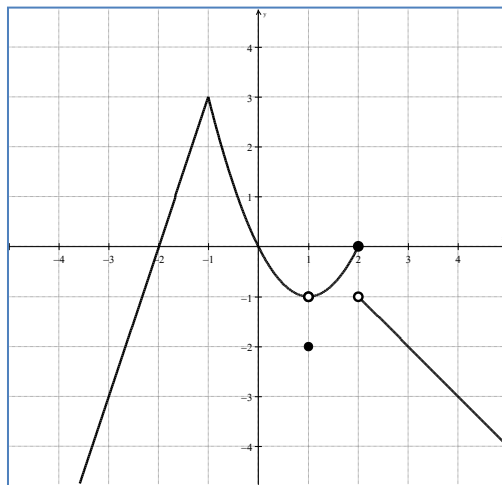
1. Evaluate the following expressions.

$$\cos^{-1}(-\sqrt{3}/2)$$

2. Find the average rate of change of the function over the given interval. You must reduce and simplify your answer, if possible.

a. $f(x) = \cot x$, $[\pi/6, \pi/2]$

3. Use the given graph of $f(x)$ to answer the following:



a. $\lim_{x \rightarrow -1^-} f(x)$

b. $\lim_{x \rightarrow -1^+} f(x)$

c. $\lim_{x \rightarrow -1} f(x)$

d. $\lim_{x \rightarrow 2^-} f(x)$

e. $\lim_{x \rightarrow 2^+} f(x)$

f. $\lim_{x \rightarrow 2} f(x)$