

Name: _____

This quiz covers: 1.1

Directions: Complete all questions and **show all applicable work**. Partial credit will be given. All questions are equally weighted.

1.) Given $f(x) = \frac{3 + 3x}{x^2}$, compute $f(2)$.

2.) Given the following table:

x	0	1	2	3	4
y	3	5	7	8	5

where $f(x) = y$, what can be said, if anything, about:

- $f(3)$
- $f(1.5)$

3.) Create a graph roughly showing the resale value of two identical cars (eg. Ford Focus) over a 15 year life span. The difference between the the two is that car A is well maintained and car B is not. Show common issues like depreciation (especially immediately after purchase). Assume the purchase price was \$20,000 in 2010. Label each curve and describe any interesting features.