

MA 16010 Quiz 1

Lessons 1-3

21 January 2021

Show all relevant work for each problem, unless otherwise stated. Partial credit will be given for steps leading to correct solutions. Little or no work, even with a correct answer, will receive little or no credit.

Problem 1. (3 points) Simplify the following expression completely. Make sure there are no negative exponents.

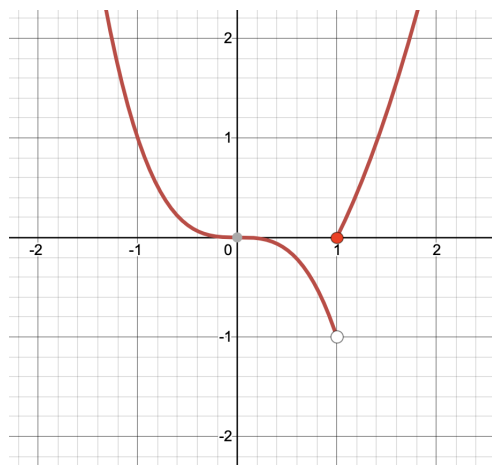
$$e^{-\frac{1}{2} \ln(5x)}$$

Problem 2. (3 points) Find the following limit. Feel free to use a calculator to make a table.

$$\lim_{x \rightarrow -2^+} \frac{-3x^2}{(2+x)^3}$$

Problem 3. (3 points) Using the graph of $f(x)$ find the following:

$$(a) \lim_{x \rightarrow 1^-} f(x) = \quad (b) f(1) =$$



Problem 4. (1 point) What is a topic or idea you still have questions about or would like me to review?