

## Assignment #1

2.1 # 4

2.2 # 4

2.2 #10

2.3 #12

Problem

(a) Graph  $f(x) = (1 + x)^{1/x}$

(b) Using the table below, estimate  $\lim_{x \rightarrow 0} (1 + x)^{1/x}$

x	-.1	-.01	-.001	.1	.01	.001
f(x)						

(c) Use a computer algebra system to evaluate

$$\lim_{x \rightarrow 0} (1 + x)^{1/x}$$

exactly