

Math-13 Sections 01 and 02

Homework #3

**Due: Midnight 9/18**

1. Determine the smallest estimate for  $\pi + e$  that is within 0.000005 of the exact value.
2. Using a table of values, determine the following:

$$\lim_{x \rightarrow 0} \frac{\cos x - 1}{x}$$

Be sure to approach 0 from both sides in your table.