Week 3 Recitation Problems

MATH:113, Recitations 304 and 305

The Squeeze and Intermediate Value Theorems

- 1. $\lim_{t\to 0} t^2 \sin\left(\frac{1}{t}\right)$
- 2. Show that the function $f(x) = x^4 + x 3$ has a solution on the interval [0, 2].
- 3. $\lim_{t\to\infty} \frac{\sin t}{t}$
- 4. Does the function $f(x) = x^3 + 3x^2 + x 2$ have a root on [0,1]? If so, approximate it.