

Homework 01

1. Section 2.2: 19, 25, 31, 33, 37, 41, 63, 77, 81, 87.

Remark: For problem 87, just find the limit. Need not plot it. To find the limit, use the algebraic identity ' $a^3 \pm b^3 = (a \pm b)(a^2 \mp ab + b^2)$ '.

2. Section 2.2: Find $\lim_{x \rightarrow 0} \sqrt{|x|} \cos \frac{1}{x}$.