Math 336
Spring 2024
Dr. Lily Yen

$\underset{\mathrm{Show \ all \ your \ work}}{\mathrm{Quiz}} 1$

Name:		
Number:		
Signature:		
Score:	/10	

Problem 1: True or false. Prove your claim.

- a. $cos(x) = \Omega(1)$.
- b. $\sum_{j \le n} 2 \sim 3n$.

Score: /4

Problem 2: Show that $\sum_{j=1}^{n} j = \Theta(n^2)$.

Score: /5

Problem 3: Is it true that if 4 students gather for a Graph Optimization party at Lily's office, there is always a student who knows an even number of other students?