

Name \_\_\_\_\_ Discrete I, Quiz 2

1) Draw a Venn Diagram to illustrate the following situation: (3 points)

“If you play League of Legends, then you use a computer.”

2) Determine whether or not the argument below is valid. (3 points)

“If you play League of Legends, then you use a computer. Alice uses a computer.

Therefore Alice plays League of Legends.”

3) Write the following statement in formal mathematical notation, then determine its truth value. (2+2 points)

“There is a real number  $x$  such that  $3^2 + x^2 = 5^5$ .”