Quiz 1, MAT329, Fall 2015   Name: ⸻

a. Give a technically correct definition of a function.

b. What's the domain of $\sin(x + y^2)$?

c. What's the name of the graph of $y = x^2$? What's the name of the graph of $z = x^2 + y^2$? Give one example of how this particular object is useful.

d. Give the name, properties, and an application of one **class** of **univariate** functions of your choice.