

Show all work to get full credit of this 10 point quiz. All calculators are allowed, except for phones.

1. (*5 points*) Does the equation represent a function of x ? If so, what is the domain? If not, find a value of x with more than one corresponding y value.

$$x^2 + y^2 = 16 \tag{1}$$

2. (*5 points*) Find each of the following in the below quadratic function: intercepts, vertex, max or min, and range.

$$f(x) = (x - 4)^2 - 3 \tag{2}$$