

Name: _____

Quiz 0

Math 112

You have 20 minutes to complete **both sides** of this quiz and turn it in. When you're finished, first check your work if there is time remaining, then turn it in. You may use a scientific calculator, but not a graphing one. **Show all your work.**

1. (4 points) Let $f(x) = 2^x$. What is $f(-3)$? Express your answer as a fraction.

2. (8 points) Let $g(t) = t^2$. Sketch a graph of g and label at least two points.

3. (8 points) A function $h(x)$ is **invertible** if it passes the horizontal line test — that is, if two different x -values never produce the same y -value. For $p \geq 1$ an integer and $h(x) = x^p$, when is h invertible? You can do this with either the graphs from class or with the equations themselves.