Name ____________________________

- No calculators allowed.
- Show sufficient work to justify each answer.
- You have 15 minutes for this quiz.

1. (2 points) Graph the following function. Make sure to include in your plot the x-intercept, y-intercept, and one other point.

$$g(x) = -2\sqrt{x - 1}$$

2. (2 points) What is the domain of the function $f(x) = \frac{\sqrt{x-1}}{x^2-4x+4}$?
3. (2 points) Is the following function even, odd, or neither?

\[ h(x) = (\sin(5x) + 7x^3)^4 \]

4. (2 points each) Solve and evaluate the following quantities.

(a) \[ \tan(x) = \frac{1}{\sqrt{3}} \] (Solve for x.)

(b) \[ \sin^2(5\pi/4) \] (Evaluate)