Quiz 2

Math 184 section 922

5/1111

Name:

Answer the following on another sheet of paper.

1. Describe what is meant by a piecewise linear function.

2. Sketch the graph of $y = x^5$. Sketch the graph of $y = x^{\frac{1}{5}}$.

3. Graph the function $f(x) = 3x - 1$ if $x \leq 0$, $-2x + 1$ if $x > 0$.

4. Explain why a function that is not one-to-one on an interval $I$ cannot have an inverse on $I$.

5. Sketch a function that is one-to-one and positive for $x \geq 0$. Sketch a graph of its inverse.

6. What are the largest intervals on which the function $f(x) = |2x + 1|$ has an inverse?

7. Solve the equation $10^{x^2-4} = 1$. 

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