Each problem is worth zero points. It’s a fake quiz, after all.

1. Name a function which is continuous but not differentiable.

2. Name a function which is differentiable but not continuous.

3. Name two sequences which diverge, but whose sum converges.

4. What’s the limit of the function $f(x) = 1/x$ as $x$ approaches infinity? How do you know?

5. How many prime numbers are there? How do you know?