Name

MATH 181 – QUIZ 1

1. Consider the real numbers $a = 3.141592$ and $b = 1.4188$.

   (a) Write the rounding up to 2 decimals of the numbers a and b.

   (b) Write the rounding down to 3 decimals of the numbers a and b.

   (c) Write the rounding down to 2 decimals of the number $a + b$.

   (d) What is the smallest nonnegative integer n for which $|5b - 7| > 10^{-n}$.

2. Determine the least positive integer N with the property

$$\left|\frac{2n+1}{n+2} - 2\right| < 10^{-2} \text{ for any } n \geq N$$