Scott Roberts

011651729

2/16/18

Explanation for the Monte Carlo Method of approximation:

The reason that estimates are so poor at small levels of N (the number of random points you are generating) is because there is a small sample pool. The smaller the sample pool to chose your points, the less accurate the result.

Derivative Calculator Answers

I did not get the pretty answer code to work, but I did the recommended modifications to all the “make-operations” in the source. My answers are ugly, but they work.

Question 4:

1. (- (+ (\* 5 1) (\* 0 x)) 0)
   1. 5
2. (\* (\* 5 (\*\* (ln (+ (\*\* x 2) 1)) 4)) (/ (+ (\* (\* 2 (\*\* x 1)) 1) 0) (+ (\*\* x 2) 1)))