

Math 114 Spring 2019  
Calculus I HW 7 Solutions  
Due Wednesday, April 3

For this homework you may compute derivatives using any tools we have developed in class.

1. Stewart 3.2.6
2. Stewart 3.2.8
3. (★) Stewart 3.2.16
4. (★) Stewart 3.2.24
5. Stewart 3.2.30
6. Stewart 3.2.32
7. Stewart 3.2.36
8. Stewart 3.2.38
9. (★) Stewart 1.5.36 (Note about notation: what they call  $N$  is the target value that I called  $y$ .)
10. Stewart 1.5.40
11. Stewart 1.5.42
12. Use the Intermediate Value Theorem to show that the function  $f(x) = x^6 + 5x - 5$  has at least two distinct roots.