

Math 114 Spring 2018  
Calculus I HW 4  
Due Wednesday, October 4

1. Let  $a$  and  $c$  be any constants. From the  $\epsilon$ - $\delta$  definition, prove that  $\lim_{x \rightarrow a} c = c$ .
2. Stewart 1.4.22
3. Stewart 1.4.24
4. Stewart 1.4.26
5. Stewart 1.6.14
6. Stewart 1.6.18
7. Stewart 1.6.20
8. Stewart 1.6.22
9. Stewart 1.6.24
10. By any means we have developed in class, compute  $\lim_{x \rightarrow +\infty} x - \sqrt{x}$ .