

Math 114 Fall 2018
Calculus I HW 10
Due Monday, December 3

1. Stewart 4.1.8
2. Stewart 4.1.10
3. (★) Stewart 4.1.28
4. Stewart 4.1.38
5. Stewart 4.1.48
6. Use a quadratic approximation of $f(x) = \sqrt{x+2}$ centered at $a = 7$ to estimate $\sqrt{8}$.
7. Let $g(x) = 1/x$. Find a formula for the quadratic approximation of g centered at $a = 4$.
8. Use a quadratic approximation to estimate $(2.1)^5$.
9. Stewart 4.2.18
10. (★) Stewart 4.2.20
11. Stewart 4.2.24
12. Stewart 4.3.6
13. Stewart 4.3.8
14. Stewart 4.3.12
15. Stewart 4.3.14
16. (★) Stewart 4.3.16

Do not turn in, but these are good extra practice problems:

- (a) Stewart 4.1.44
- (b) Stewart 4.3.4
- (c) Stewart 4.3.10
- (d) Stewart 4.3.20
- (e) Stewart 4.4.2
- (f) Stewart 4.4.8
- (g) Stewart 4.4.10
- (h) Stewart 4.4.22
- (i) Stewart 4.4.28
- (j) Stewart 4.4.34
- (k) Stewart 4.4.36