Math 114 Spring 2017
Calculus I HW 6
Due Friday, March 17

1. Stewart 1.5.16
2. Let
$$f(x) = \begin{cases} x+3 & x > 2 \\ x^2+1 & x < 2 \end{cases}$$
Define a function that extends f and is continuous at all real numbers.
3. Let
$$g(x) = \begin{cases} x^2-5 & x > -1 \\ 4x & x < -1 \end{cases}$$
Define a function that extends g and is continuous at all real numbers.
4. Stewart 1.5.30
5. Stewart 1.5.34
6. Stewart 1.5.36 (N in this problem is the target output, what I called y in class)
7. Stewart 1.5.38
8. Stewart 1.5.40
9. Stewart 1.5.42
10. Stewart 2.1.4
11. Stewart 2.1.12