

Math 114 Spring 2019  
Calculus I HW 2  
Due Wednesday, February 6

1. Stewart 1.4.34
2. Stewart 1.4.36
3. (★) Using the squeeze theorem, show that

$$\lim_{x \rightarrow -2} \frac{x+2}{2 + \sin\left(\frac{1}{x+2}\right)} = 0.$$

4. Stewart 1.4.50
5. Stewart 1.4.52 (Hint: what trig identities do we know? Can we make one of them show up?)
6. Stewart 1.4.54
7. Stewart 1.6.16
8. Stewart 1.6.18
9. Stewart 1.6.20
10. Stewart 1.6.22
11. Stewart 1.6.24
12. (★) Stewart 1.6.28