

Math 114 Fall 2017
Calculus I HW 5
Due **Friday**, October 13

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 1.5.4
8. (★) Stewart 1.5.6