Math 114 Spring 2017
Calculus I HW 5
Due Friday, March 3

1. ($\star$) Stewart 1.6.4

2. Stewart 1.6.14

3. Stewart 1.6.18

4. Compute $\lim_{x \to +\infty} x - \sqrt{x}$.

5. Stewart 1.4.34

6. Stewart 1.4.36

7. ($\star$) Using the squeeze theorem, show that

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

8. Stewart 1.4.50

9. Stewart 1.4.52 (Hint: what trig identities do we know? Can we make one of them show up?)

10. Stewart 1.4.54

11. Stewart 1.5.4

12. ($\star$) Stewart 1.5.6