Quiz 14 — MA161 — October 24, 2018 Alden Bradford

Suppose $f(x) = \sqrt{3}\sin x + \cos x$.

- 1. (2 points) Find f'(x).
- 2. (10 points) Find all the critical numbers of f(x) in the interval $[0, \pi]$.
- 3. (6 points) Evaluate f(x) at x = 0, $x = \pi$, and at every critical number you found in part 2.
- 4. (2 points) Give the maximum and minimum values of f(x) on the interval $[0, \pi]$.