Homework Set 0 / Mock Assignment

Due: Aug 30, 2021 (via Blackboard, by 11.59pm)

To be handed in:

Please remember that all problems will be graded!

1. If a is an even number, and b is an odd number, is $a + b$ even or odd? Explain.

2. Compute the 21st derivative of the function $f(x) = x^{17} + 5x^4 - x^2 + 1$.

3. Explain (even if heuristically) how to compute the result of the following sum:

$$1 + 2 + 3 + \cdots + 98 + 99 + 100 \ = \ ?$$