Cody Pappa

MAE 144 HW1

1. https://github.com/CodyPappa/Classes
2. A. I set up my polynomials a, b, and f and called RR\_ Diophantine to find the solution to the Diophantine equation with the lowest order for Y. My residual error is basically 0, therefore the code worked to produce a solution.

B. Looking at my TF D, it currently has 5 zeros and 3 poles, which makes it not proper. Adding k=5 poles at s=-20, makes my new TF D1 proper, with 5 zeros and 5 poles

1. Idk yet