Part I

No Part I this time.

Part II: Exercises (prepare for class Wednesday, February 14♡)

Examples 1 and 2 on the Numerical Integration handout.

Part III: Homework Problems (due Wednesday, February 14♡ at the beginning of class)

Review the guidelines and Sample Homework in the syllabus to make sure your Part III solutions follow them.

1. Find the area between the graphs of $f(x) = \dfrac{16}{x^3 - 5x^2 + 3x + 9}$ and $g(x) = \dfrac{4}{x+1}$ on the interval $[0, 2]$. A hint for factoring the denominator of $f(x)$: if you find a root of the function (an a value for which $f(a) = 0$), then $x - a$ is a factor of $f(x)$ and you can use polynomial long division to figure out what remains when you factor out $x - a$.