Let
$$I = \int_2^\infty \frac{3}{x^5 + x^2 + 1} \ dx$$
.

- 1. Show that I converges.
- 2. Find an upper bound for $I_2 = \int_{10}^{\infty} \frac{3}{x^5 + x^2 + 1} dx$.
- 3. Approximate $I_1 = \int_2^{10} \frac{3}{x^5 + x^2 + 1} dx$ using M_{100} .

How close is this approximation to I_1 ?

4. Notice $I = I_1 + I_2$. How close is your value for M_{100} to the actual value of I?

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