Project 3

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Hello World!
I want to talk about double integrals, expressed as $\iint f(x,y)\mathrm{d}A = \int_c^d \int_a^b f(x,y)\mathrm{d}x\mathrm{d}y$. These are expressible as the limit of Riemann prisms:

$$\lim_{m,n\to\infty} \sum_{i=1}^{m} \sum_{j=1}^{n} f(x_{ij}^*, y_{ij}^*)\Delta x \Delta y \tag{1}$$

where $\Delta x = \frac{b-a}{m}$ and $\Delta y = \frac{d-c}{n}$

1 Approximation with Rectangular Prisms

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2 Volume as a Double Integral

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3 Varying Approximations of Volume

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