

C12 - 5.2 - Int Ram/Anti/Pol/Rad/t/Exp/ln/Tri/±1 Rev

Find the area under the graph from [0,2] using four (n=4) rectangles using Riemann's LRAM, MRAM & RRAM, and Trapezoidal Rule .

$$y = x^2 + 1$$

$$y = x^2 - 1$$

$$y = x^3 - 1$$

Anti-differentiate

$$\int 3x^2 dx =$$

$$\int (3x(x+1)^2) dx =$$

$$\int \frac{x^2 + 2x}{x} dx =$$

$$\int \frac{(x+1)^3}{x} dx =$$

$$\int \sqrt{4x} dx =$$

$$\int \sqrt{x}(x+1) dx =$$

$$\int \frac{2}{x\sqrt{x}} dx =$$

$$\int (2x+3)^2 dx =$$

$$\int \left(2x + \frac{1}{x}\right)^2 dx =$$

$$\int \frac{2}{x+1} dx$$

$$\int e^{2x} dx$$

$$\int 5^{2x} dx$$

$$\int (e^x + 2x) dx =$$

$$\int \frac{x}{x+1} dx$$

w/out U Sub

$$\int \frac{1}{1+e^x} dx$$

$$\int \cos 2x dx =$$

$$\int \sin^2 x dx =$$

$$\int \frac{\sec x}{\tan^2 x} dx$$