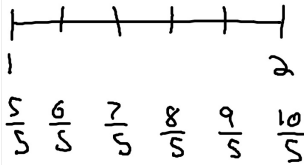


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13

$$\int_1^2 \sqrt[3]{x^2} dx$$

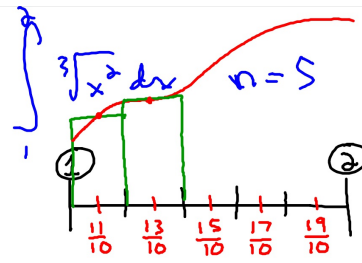
$$f(x) = \sqrt[3]{x^2} \quad n=5$$



$$L.S. = 1.246$$

$$U.S. = \frac{1}{5} \left[ f\left(\frac{6}{5}\right) + \dots + f\left(\frac{10}{5}\right) \right] = \frac{1}{5} \sum_{x=6}^{10} \sqrt[3]{\left(\frac{x}{5}\right)^2} = 1.363$$

13 ...



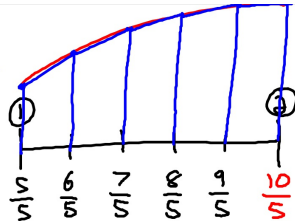
M.P.

$$\frac{1}{5} \sum_{x=0}^4 \sqrt[3]{\left(\frac{11}{10} + x \frac{1}{5}\right)^2} = 1.3051$$

13 ...

$$\int_1^2 \sqrt[3]{x^2} dx$$

Trapezoid



$$\frac{1}{5} \cdot \frac{1}{2} \sum_{x=5}^9 \left( \sqrt[3]{\left(\frac{x}{5}\right)^2} + \sqrt[3]{\left(\frac{x+1}{5}\right)^2} \right) = 1.3044$$