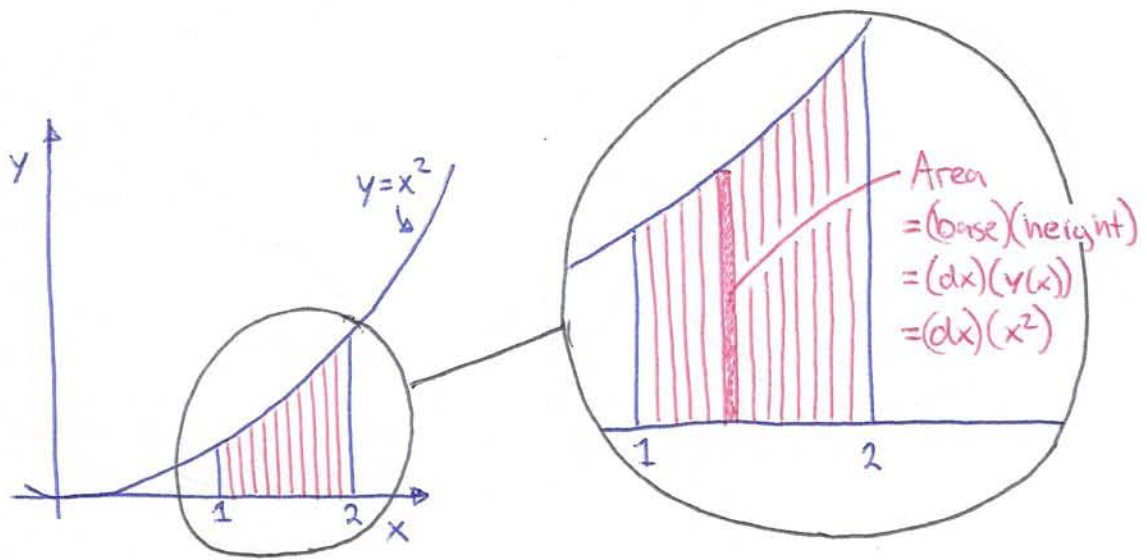


Area Calculation



$$\begin{aligned}\text{Area} &= \int_1^2 \overset{\text{height}}{(x^2)} \overset{\text{base}}{(dx)} = \int_1^2 x^2 dx \\ &= \left[\frac{1}{3} x^3 \right]_1^2 \\ &= \left[\frac{1}{3} (2)^3 \right] - \left[\frac{1}{3} (1)^3 \right] \\ &= \frac{8}{3} - \frac{1}{3} \\ &= \frac{7}{3} \approx 2.3 \text{ units}^2\end{aligned}$$