Area Under the Curve

Evaluation Theorem:

$$\int_{a}^{b} f(x)dx = \underline{\hspace{1cm}}$$

Determine the area represented by the definite integral.

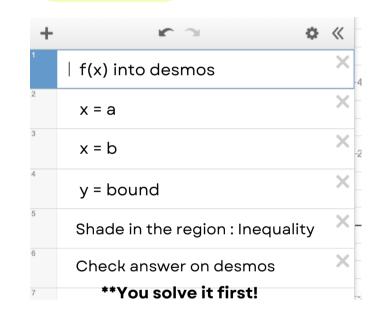
Example 1:
$$\int_0^1 x^{\frac{4}{5}} dx$$

x-bounds:

y-bounds: _____

Inequality: _____

Steps:



Area Under the Curve

Determine the area represented by the definite integral.

Example 2: $\int_{1}^{8} \sqrt[3]{x} \, dx$

Example 3: $\int_{-1}^{0} \left(2x - e^{x}\right) dx$