

1. Find the area under the graph of $y = \cos(x)$ between $x = 0$ and $x = \pi/2$.

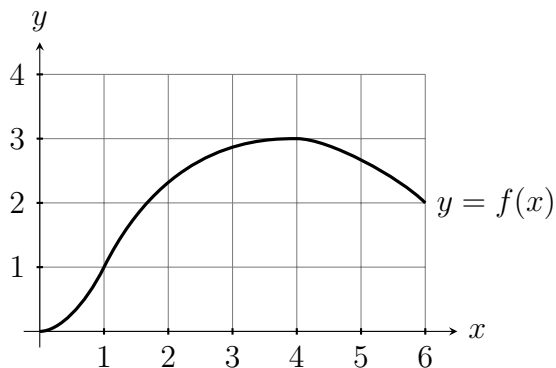
2. $\int_0^4 (3x^2 + 2x) dx =$

3. $\int_1^2 \left(x + \frac{1}{x^2}\right) dx =$

4. Find the derivative of the function $F(x) = \int_x^0 \frac{e^t \sin(\pi t)}{t^5 + e^t} dt$.

5. The graph of a function $f(x)$ is shown below.

Find $\int_4^6 f'(t) dt$.



1. Find the area under the graph of $y = \sin(x)$ between $x = 0$ and $x = \pi$.

2.
$$\int_1^2 (2x - 3x^2 + 1) dx =$$

3.
$$\int_0^{\sqrt{3}/2} \frac{1}{\sqrt{1-x^2}} dx =$$

4. Find the derivative of the function $F(x) = \int_x^\pi \frac{t^5 + e^t}{e^t \ln(t)} dt$.

5. The graph of a function $f(x)$ is shown below.

Find $\int_1^4 f'(t) dt$.

