
Name: _____

QUIZ 24 

MATH 200
November 20, 2025

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

2. $\int_0^\pi \sin(x) dx =$

3. Find the area under the graph of $y = x^2$ between $x = 0$ and $x = 2$.

4. Find the derivative of the function $F(x) = \int_1^x \frac{1 + \cos(t)}{\sqrt{t+4}} dt.$

5. Find the derivative of the function $y = \int_1^{x^2+x} \frac{1 + \cos(t)}{\sqrt{t+4}} dt.$

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2. $\int_0^1 \sqrt{x} dx =$

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

4. Find the derivative of the function $F(x) = \int_1^x \frac{\sqrt{t+4}}{1+\cos(t)} dt$.

5. Find the derivative of the function $y = \int_1^{\sin(x)} \frac{\sqrt{t+4}}{1+\cos(t)} dt$.