

Quiz 1 Practice

Evaluate each integral. Show all work.

1. Evaluate $\int_1^{\pi^2} \frac{\sin(\sqrt{x})}{\sqrt{x}} dx$.

2. Evaluate $\int \frac{x^2}{\sqrt{9-x^2}} dx$.

3. Evaluate $\int \frac{3x^2 + 3x + 4}{x^3 + 4x} dx$.

4. Evaluate $\int \frac{\ln x}{\sqrt[3]{x}} dx$.

5. Evaluate $\int \tan^5 x \sec^4 x dx$.

6. Evaluate $\int e^{-2x} \cos(3x) dx$.

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