

## Quiz 6

Jan 02, 2012

Show all details.

1. Evaluate  $\int \sin(\ln x) dx$ .
2. Evaluate  $\int \frac{dx}{\sqrt{x} + \sqrt[3]{x}}$ .
3. Evaluate  $\int \frac{dx}{x^2\sqrt{x^2 + 1}}$ .
4. Evaluate  $\int_{\pi/3}^{\pi/2} \frac{dx}{1 - \cos x}$ .
5. Evaluate  $\int_0^{\pi/4} \tan^3(x) \sec^3(x) dx$ .

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