

Name : Id #..... List no:

1.
$$\int \frac{\tan^3 x}{\cos^3 x} dx$$

2.
$$\int \sqrt{\frac{1+x}{1-x}} dx$$

3.
$$\int \tan^2 x \sec x dx$$

4. Show that $2 \int_0^1 e^{\sqrt[3]{x}} dx = 3 \int_0^1 \sqrt{x} e^{\sqrt{x}} dx$

5. $\int x \sin^2 x dx$

6. $\int \frac{dx}{x^2 + 6x + 13}$