

Integration Gateway #5**Math 232**

Same rules as the previous gateway, but here you must 3 of the 4 problems completely correct. Don't forget to circle your final answers!

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

2. $\int \frac{\ln x}{x} dx$

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

4. $\int_0^2 x\sqrt{x^2 + 3} dx$