

Integration Gateway #0**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. $\int \frac{\sqrt{x} + 4}{x^3} dx$

2. $\int x^2 \ln x dx$

3. $\int \frac{\sin \sqrt{x}}{\sqrt{x}} dx$

4. $\int_0^{\frac{\pi}{4}} \sec^2 x dx$