

SI Session: Week of February 18th
Tuesdays 5:30 – 7:30 PM, Rm. 1130
Wednesdays 4:20 – 6:20 PM, Rm. 1229

Prof. Stockton : Calculus II : Spring 2008
SI Leader : Neil Jody

1. $\int \tan^{-1} x \, dx$

2. $\int (\sin x - \cos x)^2 \, dx$

3. $\int 4^{-x} \cos x \, dx$

4. $\int \cos^4 x \, dx$

5. $\int \sqrt{x} \ln x \, dx$

6. $\int \cos^3\left(\frac{x}{3}\right) dx$

7. $\int \ln(x^2 + 4) dx$

8. $\int_0^{\pi/2} \sin^2\left(\frac{x}{2}\right) \cos^2\left(\frac{x}{2}\right) dx$

9. $\int \cos(\ln x) dx$

10. $\int_0^{\pi/6} \sec^3 2\theta \tan 2\theta d\theta$

11. $\int_1^2 x \sec^{-1} x \, dx$

12. $\int \tan x \sec^{3/2} x \, dx$

13. $\int_1^e x^2 \ln x \, dx$

14. $\int \sin^2 x \cos^2 x \, dx$

15. $\int \frac{xe^x}{(x+1)^2} dx$

16. $\int \sec^5 x \tan^3 x dx$

17. $\int (\ln x)^2 dx$

18. $\int \sec^5 x dx$