

Homework Assigned 2/26/07, Due 3/12/07

1. $\int \sec^2 x dx$

* Plus memorize page 306 top *

2. $\int \sec^2 \theta \tan \theta d\theta$

3. $\int \cot^8 x \csc^2 x dx$

4. $\int \ln(2x+1) dx$ Hint: $u = \ln(2x+1) dv = dx$

5. $\int \frac{\sin x \cos x}{\sqrt{2 \sin^2 x + 7}} dx$

13. $\int \tan^4 x dx$

6. $\int \frac{3}{x^2+3x+2} dx$

14. $\int x \cos x dx$

7. $\int \frac{3}{x^2+3x+3} dx$

15. $\int \frac{x}{x-6} dx$

8. $\int \frac{2x+3}{x^2+3x+3} dx$

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

9. $\int \frac{\sqrt{4-x^2}}{2x^2} dx$

17. $\int t^2+t+1 dt$

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

18. $\int \sec^2 u du$

11. $\int 2x(x^2+9)^{10} dx$

19. $\int \frac{1}{3x-7} dx$

12. $\int \cos(8x) dx$

20. $\int \frac{3x+1}{(x^2-1)} dx$