

More Integral Practice

MA2160 Spring 2007

February 13, 2007

1. $\int x\sqrt{x^2+1} \, dx$
2. $\int x\sqrt{5-x} \, dx$
3. $\int \sec^2(7x) \tan^4(7x) \, dx$
4. $\int_0^1 \frac{4x+12}{x^2-6x+9} \, dx$
5. $\int_2^4 \frac{5}{x \ln x} \, dx$
6. $\int_0^1 \frac{5}{x^2+5x-14} \, dx$
7. $\int x^3 e^{x^2} \, dx$
8. $\int \frac{\sin(\ln x)}{x} \, dx$
9. $\int \frac{1+\ln y}{y} \, dy$
10. $\int e^{2x} \sin(3x) \, dx$
11. $\int x \cos(7x) \, dx$
12. $\int \frac{\sin(\pi\sqrt{t})}{\sqrt{t}} \, dt$
13. $\int \frac{6x^3+4x+3}{x} \, dx$
14. $\int_1^2 \frac{x+4}{x^2+8x} \, dx$
15. $\int t^2 e^t \, dt$