

Math 170 : In-class exercise #16

Evaluate the following integrals

1. $\int x(3x + 8)^{11} dx$

2. $\int \frac{x^2 dx}{(x + 5)^3}$

3. $\int \tan(4y + 9) dy$

4. $\int e^x \cos(e^x) dx$

5. $\int_0^1 (x + 1)(x^2 + 2x) dx$

6. $\int_{10}^{17} (x - 9)^{-2/3} dx$

7. $\int \frac{dt}{\sqrt{1 - t^2}}$

8. $\int \frac{dt}{\sqrt{1 - 4t^2}}$

9. $\int \frac{ds}{1 + s^2}$

10. $\int_0^3 \frac{ds}{x^2 + 3}$