

Section 5.5 Practice Problems

1. Evaluate  $I = \int 7x^3(6 + x^4)^9 dx$
2. Evaluate  $I = \int x\sqrt{x + 10} dx$
3. Evaluate  $I = \int \frac{1}{7}x^2 \cos(2x^3 - 3) dx$
4. Evaluate  $I = \int \frac{6x^5}{(2x^6 + 137)^{15}} dx$
5. Evaluate  $I = \int x(x^2 + 4)^{3/5} dx$
6. Evaluate  $I = \int \frac{e^{2x}}{5 + e^{2x}} dx$
7. Evaluate  $I = \int \frac{e^{2y}}{9 + e^{4y}} dy$
8. Evaluate  $I = \int \frac{x + 3}{x + 2} dx$
9. Evaluate  $I = \int \frac{4x}{1 + 6x^4} dx$
10. Evaluate  $I = \int \frac{x}{9 + x^4} dx$
11. Evaluate  $I = \int \frac{1}{9 + 5x^2} dx$
12. Evaluate  $I = \int \frac{1}{x} \csc(\ln x) \cot(\ln x) dx$