



Integration I - Tutoring Sheet #15

Evaluate the following integrals:

1. $\int (3x^2 + 2x - 5) dx$

2. $\int x\sqrt{x} dx$

3. $\int_0^4 \frac{dx}{\sqrt{x}}$

4. $\int_0^2 x(x^4 + 2) dx$

5. $\int \frac{dx}{x^2}$

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

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

8. $\int (x+2)^9 dx$

9. $\int_1^2 2x(x^2 + 3)^4 dx$

10. $\int x(3x+5)^7 dx$

11. $\int x(2x^2 + 7)^8 dx$

12. $\int x\sqrt{x-1} dx$