

Definite Integrals

1. $\int_{-1}^2 (5x + 3)dx$

2. $\int_1^4 (2x^2 - 3x + 1)dx$

3. $\int_0^{\pi/3} (1 - 2 \cos x)dx$

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

5. $\int_{\pi/4}^{\pi/3} \cos x dx$

6. $\int_1^9 \frac{2t^2 + t^2 \sqrt{t} - 1}{t^2} dt$

7. $\int_1^8 (\sqrt[3]{r} + \frac{1}{\sqrt[3]{r}}) dr$

8. $\int_1^2 x \sqrt{x - 1} dx$

9. $\int_0^4 \frac{x}{\sqrt{1 + 2x}} dx$

10. $\int_0^2 \frac{x}{(x^2 - 1)^2} dx$

11. $\int_1^4 \sqrt{x} \ln x dx$

12. $\int_0^1 x^2 e^{-x} dx$

13. $\int_0^2 \frac{x^3 + x^2 - 12x + 1}{x^2 + x - 12} dx$

14. $\int_0^1 \frac{x}{x^2 + x + 1} dx$

15. $\int_{1/3}^3 \frac{\sqrt{x}}{x^2 + x} dx$