

Basic Integration Rules

1. Find the indefinite integral.
(similar to p.524 #16)

$$\int \frac{5}{(x-3)^3} dx$$

2. Find the indefinite integral.
(similar to p.524 #18)

$$\int x\sqrt{8x^2-3} dx$$

3. Find the indefinite integral.
(similar to p.524 #22)

$$\int \frac{x-4}{\sqrt[3]{x^2-8x+1}} dx$$

4. Find the indefinite integral.
(similar to p.524 #24)

$$\int \frac{5x}{x+3} dx$$

5. Find the indefinite integral.
(similar to p.524 #32)

$$\int \frac{\cos x}{\sqrt{\sin x}} dx$$

6. Find the indefinite integral.
(similar to p.524 #36)

$$\int \frac{8}{5e^x - 3} dx$$

7. Find the indefinite integral.
(similar to p.524 #40)

$$\int \frac{1 + \sin x}{\cos^2 x} dx$$

8. Find the indefinite integral.
(similar to p.524 #42)

$$\int \frac{1}{\sin x - 1} dx$$

9. Find the indefinite integral.
(similar to p.524 #48)

$$\int \frac{1}{(x-1)\sqrt{9x^2 - 18x + 4}} dx$$

10. Find the indefinite integral.
(similar to p.524 #50)

$$\int \frac{1}{x^2 - 6x + 50} dx$$

11. Find the indefinite integral.
(similar to p.524 #52)

$$\int \frac{2}{\sqrt{3 - 8x - x^2}} dx$$

12. Find the definite integral.
(similar to p.525 #68)

$$\int_1^e \frac{5 + \ln x}{3x} dx$$