

11. INTEGRAL CALCULUS

• INTEGRATION

1. $\int x^n dx$

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

3. $\int \frac{1}{x} dx$

4. $\int \frac{1}{x\sqrt{x}} dx$

5. $\int \frac{dx}{\sqrt{x+1}}$

6. $\int \frac{x+1}{\sqrt{x}} dx$

7. $\int (ax+b)^n dx$

8. $\int 2 dx$

9. $\int \frac{3x-5}{2} dx$

10. $\int \frac{2}{3x-5} dx$

11. $\int \frac{3x^2+2x}{x} dx$

12. $\int \frac{x}{x^2+1} dx$

13. $\int \frac{5x^2-3x+1}{\sqrt{x}} dx$

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

15. $\int e^x dx$

16. $\int \frac{x}{e} + \frac{e}{x} dx$

17. $\int \sqrt{e^x} dx$

18. $\int e^{ax+b} dx$

19. $\int \frac{e^x}{e^x+1} dx$

20. $\int \frac{e^x+1}{e^x} dx$