

1. **Exercise**

$$\int 5x^4 dx$$

2. **Exercise**

$$\int 3x^4 dx$$

3. **Exercise**

$$\int 4\sqrt{x^3} dx$$

4. **Exercise**

$$\int 8\sqrt[3]{x^5} dx$$

5. **Exercise**

$$\int \sqrt[3]{\sqrt[2]{x}} dx$$

6. **Exercise**

$$\int \sqrt[2]{\sqrt[3]{x}} dx$$

7. **Exercise**

$$\int \sqrt{x\sqrt[3]{x}} dx$$

8. **Exercise**

$$\int \frac{y\sqrt{\sqrt[3]{\sqrt[5]{y}}}}{\sqrt[10]{\sqrt[4]{y^5}}} dy$$

9. **Exercise**

$$\int 2x^3 - 3x^2 + x - 4 dx$$

10. **Exercise**

$$\int 4x^3 + 5x + 3 + \frac{2}{x^2} - \frac{1}{x^4} dx$$

11. **Exercise**

$$\int (\sin(x) + 5) dx$$

12. **Exercise**

$$\int \frac{\cos(2x)}{\cos(x) + \sin(x)} dx$$

13. **Exercise**

$$\int \sqrt{a - bt} dt$$

14. **Exercise**

$$\int \frac{dx}{2\sqrt{x-4}}$$

15. **Exercise**

$$\int_0^a x dx$$

16. **Exercise**

$$\int_2^3 \frac{5}{x^2} dx$$

17. **Exercise**

$$\int_0^\pi \sin(x) dx$$

18. **Exercise**

$$\int_0^\pi \sin^2(x) \cdot \cos(x) dx$$

19. **Exercise**

$$\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \cos^2(x) dx$$