

1. What is $\int \frac{8}{7\sqrt{7t-5}} dt$?

- $-\frac{4}{7(7t-5)^{3/2}} + \text{constant}$
- $\frac{16}{49}\sqrt{7t-5} + \text{constant}$
- $\frac{16}{7}\sqrt{7t-5} + \text{constant}$
- $16\sqrt{7t-5} + \text{constant}$

2. Find the integral of $\frac{7e^{3t}}{3}$ with respect to t .

- $\frac{7e^{3t}}{9} + \text{constant}$
- $7e^{3t} + \text{constant}$
- $\frac{28e^{3t}}{3} + \text{constant}$
- $\frac{7e^{3t}}{3} + \text{constant}$

3. Find the integral of $\frac{5}{9}\cos(5-2t)$ with respect to t .

- $-\frac{5}{18}\sin(5-2t) + \text{constant}$
- $-\frac{5}{9}\sin(5-2t) + \text{constant}$
- $\frac{5}{18}\sin(5-2t) + \text{constant}$
- $-\frac{10}{9}\sin(5-2t) + \text{constant}$

4. Find the integral of $\frac{1}{4} \sqrt{6x-2}$ with respect to x .

- $\frac{1}{6} (6x-2)^{3/2} + \text{constant}$
- $\frac{1}{36} (6x-2)^{3/2} + \text{constant}$
- $\frac{3}{4\sqrt{6x-2}} + \text{constant}$
- $(6x-2)^{3/2} + \text{constant}$

5. Find the integral of $\frac{1}{2(3t+5)^2}$ with respect to t .

- $-\frac{3}{2(3t+5)} + \text{constant}$
- $-\frac{1}{6(3t+5)} + \text{constant}$
- $-\frac{1}{3(3t+5)^3} + \text{constant}$
- $-\frac{1}{2(3t+5)} + \text{constant}$

6. Find the integral of $\frac{2}{3} e^{5t-5}$ with respect to t .

- $\frac{2}{15} e^{5t-5} + \text{constant}$
- $\frac{2}{3} e^{5t-5} + \text{constant}$
- $\frac{16}{3} e^{5t-5} + \text{constant}$
- $\frac{10}{3} e^{5t-5} + \text{constant}$