

PRACTICE WITH ANTIDERIVATIVES

Evaluate:

1. $\int (3+x)^2 dx =$

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

3. $\int \frac{x dx}{(x^2+1)^3} =$

4. $\int \sec^2 x dx =$

5. $\int \frac{dx}{\cos^2(5x)} =$

6. $\int \tan x \sec^2 x dx =$

7. $\int \frac{\sin \theta d\theta}{\cos^2 \theta} =$

8. $\int \sin 3\theta d\theta =$

9. $\int \frac{e^{\sqrt{t}}}{\sqrt{t}} dt =$

10. $\int \sin x \cos x dx =$