

Integration Using a Table of Integrals

Name _____

Evaluate the integral.

1. $\int \frac{1}{x\sqrt{5x+7}} dx$

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

3. $\int \frac{1}{(4+x^2)^2} dx$

4. $\int x^2\sqrt{16+x^2} dx$

5. $\int \frac{\sqrt{x^2-25}}{x} dx$

6. $\int \frac{dx}{x\sqrt{x^2-1}}$

7. $\int \frac{d\theta}{7+3\sin 2\theta}$

8. $\int \csc(5x) dx$

9. $\int \csc^3(2x) dx$

10. $\int \csc^5(2x) dx$

11. $\int \tanh(3x) dx$

12. $\int \cosh^2(x) dx$

13. $\int \cosh^3(2x) dx$

14. $\int x^3(\ln x)^2 dx$

15. $\int \frac{\sqrt{6x-x^2}}{x^2} dx$