

Calculus 2

Integration of Inverse Trigonometric Functions

Integrate the following.

1. $\int \frac{4}{\sqrt{1-x^2}} dx$

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

3. $\int \frac{6}{x^2+1} dx$

4. $\int \frac{8}{x^2+1} dx$

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

6. $\int \frac{2}{x^2+4} dx$

7. $\int \frac{5}{9x^2+1} dx$

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

9. $\int \frac{1}{4x^2+25} dx$

10. $\int \frac{1}{25x^2+4} dx$

11. $\int \frac{1}{\sqrt{1-16x^2}} dx$

12. $\int \frac{1}{\sqrt{1-4x^2}} dx$

13. $\int \frac{e^{2x}}{1+e^{4x}} dx$

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

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

16. $\int \frac{e^{2x}}{\sqrt{1-e^{4x}}} dx$

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

18. $\int \frac{x^3}{\sqrt{1-x^8}} dx$

19. $\int \frac{x}{1+x^4} dx$

20. $\int \frac{x^2}{1+x^6} dx$

21. $\int \frac{x+4}{x^2+4} dx$

22. $\int \frac{x+9}{x^2+9} dx$