

Worksheet on Method of Partial Fractions

1. $\int \frac{1}{x^2-9} dx$

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

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

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

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

6. $\int \frac{x}{16x^4-1} dx$

7. $\int \frac{x^2+12x+12}{x^3-4x} dx$

8. $\int \frac{x^2+x+2}{(x^2+2)^2} dx$

9. $\int \frac{2x^3-4x^2-15x+5}{x^2-2x-8} dx$

10. $\int_0^2 \frac{3}{4x^2+5x+1} dx$

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

12. $\int_1^2 \frac{x+1}{x(x^2+1)} dx$