

MATHEMATICS

Worksheet for Class XIC/D

Resolve the following into partial fractions:

(Verify the solution by solving the required partial fraction)

1. $\frac{1}{(x-1)(x-2)}$

2. $\frac{1}{(x-1)(x-2)}$

3. $\frac{2x-3}{(x-1)(x-2)}$

4. $\frac{1}{(x-1)(x-2)}$

5. $\frac{x}{(x^2-1)}$

6. $\frac{2x-1}{(x^2-3x-2)}$

7. $\frac{x+1}{(x^2+5x+6)}$

8. $\frac{x^2+1}{x(x^2-1)}$

9. $\frac{x}{(x+a)(x+b)(x+c)}$

10. $\frac{1}{(x-1)(x-2)(x-3)}$

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

12. $\frac{x^2+7x}{x^2+2x-8}$

13. $\frac{2x^2}{(x+1)(x-1)^3}$

14. $\frac{2x^2-9x-9}{(x+3)(x^2+x+3)}$

15. $\frac{x^2}{(x^2+2)(x^2+3)}$

16. $\frac{2x-3}{(x-1)(x^2+1)^2}$