

Use the method of partial fractions to rewrite the following

$$1. \frac{2x-6}{x^2+x-6} =$$

$$2. \frac{16-x}{x^2+3x-10} =$$

$$3. \frac{3}{x^2-9} =$$

$$4. \frac{x-12}{x^2-4x} =$$

$$5. \frac{2x-6}{x^2-2x} =$$

$$6. \frac{2}{x^3-x} =$$

Write the partial fraction
decomposition

$$7. \frac{x^2 + x - 1}{x^2 - x}$$

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

Use the method of partial fractions to rewrite the following

$$9. \frac{5x^2 - 21x + 13}{(x+2)(x-3)^2} =$$

$$10. \frac{3x+4}{(x+1)^2} =$$

$$11. \frac{3x-1}{x^2(x+2)} =$$

Use the method of partial fractions to rewrite the following

$$12. \frac{3x+4}{x(x^2+1)} =$$

$$13. \frac{6x-1}{(x-1)(x^2+2x+2)} =$$

$$14. \frac{-x^3-6x^2-5x+87}{x^4-16}$$

Use the method of partial fractions to rewrite the following

$$12. \frac{3x^2 + 4}{(x^2 + 1)^2} =$$

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

$$14. \frac{-x^3 - 6x^2 - 5x + 87}{x^4 - 3x^2 - 4}$$