

## תרגיל 6

חשבו את האינטגרלים הבאים:

$$\int \frac{x^4 dx}{x^4 + 5x^2 + 4} \quad (1)$$

$$\int \frac{x^2 + 5x + 4}{x^4 + 5x^2 + 4} dx \quad (2)$$

$$\int \frac{dx}{(x^2 + 1)(x^2 - 1)} \quad (3)$$

$$\int \frac{2x^3 + 3x^2 - x - 14}{x^3 - 8} \quad (4)$$

$$\int \frac{dx}{x^4 + 1} \quad (5)$$

$$\int \frac{x}{x^2 - 5x + 6} dx \quad (7)$$

$$\int \frac{11x + 17}{2x^2 + 7x - 4} dx \quad (8)$$

$$\int \frac{2x^2 - 9x - 9}{x^3 - 9x} dx \quad (9)$$

$$\int \frac{3x^2 - 10}{x^2 - 4x + 4} dx \quad (10)$$

$$\int \frac{x^3}{x^2 - 3x + 2} dx \quad (11)$$

$$\int \frac{x^5 + 2x^2 + 1}{x^3 - x} dx \quad (12)$$

$$\int \frac{2x^2 + 3}{x(x-1)} dx \quad (13)$$

$$\int \frac{x^2 + x - 16}{(x+1)(x-3)^2} dx \quad (14)$$

$$\int \frac{2x^2 - 1}{(4x-1)(x^2+1)} dx \quad (15)$$

$$\int \frac{x^3 - 3x^2 + 2x - 3}{x^2 + 1} dx \quad (16)$$