

مثالها

مثال) انتگرالهای زیر را محاسبه کنید .

$$3) \quad I = \int \frac{1}{x^2 - 4} dx$$

$$4) \quad I = \int \frac{x}{(x-2)^2} dx$$

$$5) \quad I = \int \frac{1}{(8-x)(6-x)} dx$$

$$6) \quad I = \int \frac{x^2 - 2x - 3}{(x-1)(x^2 + 2x + 2)} dx$$

$$7) \quad I = \int \frac{2x^2 + 5x - 1}{x^3 + x^2 - 2x} dx$$

$$8) \quad I = \int \frac{x^2 + 2x + 3}{(x-1)(x+1)^2} dx$$

$$9) \quad I = \int \frac{3x^2 + 2x - 2}{x^3 - 1} dx$$

$$10) \quad I = \int \frac{15x^2 - 4x - 11}{(x-3)(x+5)(x-1)} dx$$

$$11) \quad I = \int \frac{x^2}{(x+2)(x^2-1)} dx$$