

תרגיל 4

$$\int x e^{-x} dx \quad .1$$

$$\int e^{2x} \sin^2 x dx \quad .2$$

$$\int x^3 \sqrt{9 - x^2} dx \quad .3$$

$$\int \frac{1}{\sqrt{2x-3}} dx \quad .4$$

$$\int x^7 \sqrt{5 + 3x^4} dx \quad .5$$

$$\int \frac{x^3 e^{x^2}}{(x^2+1)^2} dx \quad .6$$

$$\int \sin^6 x \cos^2 x dx \quad .7$$

$$\int \frac{\cos 2x}{\cos^2 x \sin^2 x} dx \quad .8$$

$$\int \frac{1}{1 + \sin x + \cos x} dx \quad .9$$

$$\int \frac{\sin 2x}{1 + \sin^2 x} dx \quad .10$$

$$\int \frac{1}{x^2 - a^2} dx \quad .11$$

$$\int \frac{x^4}{x^4 - 1} dx \quad .12$$

$$\int \frac{x^3 + 3x^2 + 5x + 7}{x^2 + 2} dx \quad .13$$

$$\int \frac{x^5}{(x^3 + 1)(x^3 + 8)} dx \quad .14$$

$$\int \cos 3x \cos 2x \quad .15$$

$$\int \cos x \cos 2x \cos 4x \quad .16$$

$$\int \tan^2 x \quad .17$$

