

Review of Calculus 1 Integrals

Find the integrals:

(1).

$$\int 2x\sqrt{x^2 + 1} dx.$$

(10).

$$\int \sin^2 x \cos x dx.$$

(2).

$$\int \frac{1}{(x+1)^2} dx.$$

(11).

$$\int \tan x dx.$$

(3).

$$\int \sin(2x - 4) dx.$$

(12).

$$\int \cos x \cos(\sin x) dx.$$

(4).

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

(13).

$$\int \tan^2 x dx.$$

(5).

$$\int \sqrt{4x-1} dx.$$

(14).

$$\int \sin^2 x dx.$$

(6).

$$\int x^2 \sqrt{4x-1} dx.$$

(15).

$$\int \cos^2 x dx.$$

(7).

$$\int x e^{-x^2} dx.$$

(16).

$$\int \sin^2 x \cos^2 x dx.$$

(8).

$$\int \frac{e^t}{e^{2t} + 2e^t + 1} dt.$$

(17).

$$\int \tan^2 x \sec^2 x dx.$$