(1 point) Find the following indefinite integrals.

$\int \frac{x}{\sqrt{x+7}}\,dx =$ 2/3*(x+7)^(3/2)-14(x+7)^(1/2) $+C$

$\int \frac{\cos(t)}{(7\sin(t)+3)^2}\,dt =$ -1/(7*(7sint+3)) $+C$

(1 point)

Evaluate the integral

$$\int -6\sec^2(x)\tan(x)\,dx$$

Note: Use an upper-case "C" for the constant of integration.

-3tan^2(x)+C

(1 point)

Evaluate the indefinite integral

$$\int 6\cos(x)\sin^6(x)\,dx$$

Note: Any arbitrary constants used must be an upper-case "C".

6/7sin^7(x)+C

(1 point)

Evaluate the integral

$$\int 4\sqrt{\frac{1+x}{1-x}}\,dx$$

Note: Use an upper-case "C" for the constant of integration.

4arcsinx-4(1-x^2)^(1/2)+C

(1 point) Find the integral.

$\int e^{7x}\sin(3x)dx =$ 7/58e^(7x)*sin(3x)-3/58*e^(7x)*cos(3x)+C

(1 point)

Evaluate the following integral:

$$\int_1^2 \frac{2\ln(x)}{x^2}\,dx$$

-ln2+1

(1 point)

Evaluate the integral

$$\int \frac{6x^2-12x-6}{(x-1)^2(x^2+1)}\,dx$$

Note: Use an upper-case "C" for the constant of integration.

6ln|x-1|+6/(x-1)-3ln|x^2+1|+6arctanx+C

(1 point)

Evaluate the integral

$$\int \frac{-1(x-9)}{(x+5)(x-2)}\,dx$$

Note: Use an upper-case "C" for the constant of integration.

-2ln|x+5|+ln|x-2|+C