

Toreu 2:

$$dv \sin x dx$$

$$V:J \sin$$

$$V=-(0)X$$

$$dv \quad ed$$

$$ue0s(31\backslash$$

$$tui \cos(3\backslash ox \quad V=SetxgK$$

$$day \quad -\ln(3x)^6 \quad v_E \quad e1x$$

$$V=ex$$

$$= e \sin 3x) - (e' \cos ox) + \int e'' \sin b) dx)$$

$$z \quad elsh(3x) - t \quad (os(3x) - Jexsn(3) dx$$

$$Jex \sin 3x) dx > e \sin(3a \backslash - eos13r) - Je \sin (?2$$

$$Jel \ln(3x) dx = \quad 2$$

$$3: \quad x \ddot{i} \frac{1}{2} sio(1x) dx = - x \sin(yx) (1y) dx$$

$$Jv=cor(Hy \backslash dx$$

$$u \quad x \quad dy - sioty1 dx$$

$$v = J \sin(9x) \quad dx$$

$$\sin(H)$$

$$V \bullet - s \ddot{i} \frac{1}{2} s$$

$$x \sin lYx)$$

)6

$$du < edx$$

$$zleex) tG$$

$$e2xe' * 2ex + e$$

$$5: Jxe$$

$$ex_2$$

$$2$$

$$1$$

$$Jei \, dx$$

$$2e'x$$

$$v: -e:$$

$$x(0 \, (Sx) \, im(5x) \, 15G$$

$$6?Jxco \, (5x)dx =$$

$$\begin{aligned} dy \, (os(sx)dx \\ v \, Jlosls<)dx \, dy=sdx \\ Vi_{\frac{1}{2}}Seos)dy \end{aligned}$$

$$-Xcot()+Jot \, (x \backslash d-x(t) \, +Inlsine \, tG$$

$$\begin{aligned} dv \, csc'(x)Jx \\ VSes)dx \\ V=-(ot \, (x)) \end{aligned}$$

$$\begin{aligned} g \, Sxse<(x)tan(\, dx \, = \, xScco)- \, Jsec(nd-*secon \, -lnltonotfeclalt \\ du \, Sec()tonldx \end{aligned}$$

$$\begin{aligned} V= \, SeCx) \\ 3 \, 3x' \, du = -+3 \, (-xe"dx) \end{aligned}$$

$$\begin{aligned} de \, 3x'dx \, V=Jedx \, \frac{dy}{-dy} \frac{-dx}{dr} \, du, \, \frac{e \, dx}{v4 \, Je*dx} \\ v=-fedY \end{aligned}$$

$$\begin{aligned} - \, 38+6Jxe*k=-x \, -+ol \, ^X \, +Sedx) \\ du, \, dx \, led \, -t61-- \, tG \end{aligned}$$

$$Ve$$

$$ex$$

$$x'+ \, 3x'+6x+6 \, tG$$

$$t0: \quad x' \text{Cor} (x) i; \frac{1}{2} x = x * \sin r) - 2 \, x \sin y) dx$$

$$\text{du,} \quad \text{nldk}$$

$$\text{du: } 2x dx \quad V: \text{Jos} (\% dx \quad \text{du, } dx$$

$$V \sin (x)$$

$$x? \sin(s) \quad 2 \, (-X_{(os(<) \, t \, \text{Jeost}) \, dx}) x' \sin l x) \quad + 2 x \cos () - 25 \sin l) t G$$

$$11: \, S \sin "k dx = S \csc) dx \, = - \text{Inl} \csc n \, t \, \text{ot} () \text{lt} \, c$$

$$(2 \, \text{fton} \quad dx = \text{Jeot} (A dx = 0 \text{lsinr} |$$

$$3: S x n (a l d \quad = \, \text{In} x i x^3 \quad \text{lo}) x^3 -$$

$$\text{duz} \quad dx \quad V = S x^3 ' dx$$

$$3 \quad 2 x \ln x) - \, x * x \quad 2 x \text{lo} l x) \quad 4 x^4$$

$$\text{IssJxton} \quad (\,) dx \quad \text{cot}) x^2$$

$$\text{dui} - \csc x) \quad \text{dv} \quad x dx \quad \text{UEl1+) " \, \text{du} : x dx$$

$$\text{vSxo} \quad \text{dayV} \quad \text{Sx' dx}$$

$$3$$

$$\text{dut}$$

$$\text{ot}) - \quad -$$

$$V: \, -(ot \, (x)$$

$$u: \cos 3x) \quad \text{duse} x dx ' y^3 x$$

$$\text{duz} \, - 3 \sin (3x) \quad \text{v} = S e^{sx} j x \quad \text{dy}^3 0 k$$

$$V = S e d$$

3

$$\sin(B) \cos(3x) dx$$

$$2 \int e^{\cos(3x)} dx = \frac{1}{3} \cos(3x) e^{\cos(3x)}$$

$$\int \frac{e^{\sin(x)} \cos(x) dx}{\sin(x)} = \frac{1}{2} \ln(\sin(x)) + \frac{1}{2} \ln(\cos(x)) + C$$

$$-\frac{1}{2} \ln(\sin(x)) - \frac{1}{2} \ln(\cos(x)) + C$$

$$\int \sin(x) dx = -\cos(x) + C$$

$$\int \sec(x) dx = \ln|\sec(x) + \tan(x)| + C$$

$$\int \sec^2(x) dx = \tan(x) + C$$

$$\int \sin(x) \ln(\cos(x)) dx = -\ln(\cos(x)) \cos(x) - \sin(x) + C$$

$$\int \sin(x) \cos(x) dx = \frac{1}{2} \sin^2(x) + C$$

$$\int \sin(x) \ln(\sin(x)) dx = -\ln(\sin(x)) \sin(x) - \cos(x) + C$$

dudx

$$= \sin(u) - \cos(u) + C$$

$$\int \sin(u) du = -\cos(u) + C$$

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fxse (S)dx = xtun(5x^{Sx} -fton(Sx) dx = ten-(inl ton(6x)tsalsa)

A=x^{dy} ser (sr)dx Y-S*^{de, sdx}

du dx V- Ssec (y)dy

V= tan (Sx)

=X^{tan(sx)} Inltenls1+ Selsx)1²⁵

237 J^{dx=} duz Jtdu = Junsu tSudu

3 - zu=-2utG^{- 2(X-1)}

241*J(2x⁺¹)Js^{dx} =fautⁿ) Vu du =(2ut1)u. fuhdu

u,^{= 2ut94} duz Ju du

du- 2du

du dx^V 2u

2(2ut11)u^{= 3} (2ut1)4

(2x+1)(x-5)-2(x-s)*G

2^{(x}

dvxdx³ -Sdx

duz dx^{(K-1)x} 3

Mas fucl.

multypces