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 (m_2) be the slope of the function $(y=\log_3 x)$ at (x=1). Then_ $(m_1=\frac{m_2}{\ln(3)})$

[MTH381] Consider the function $(y=f(x)=3e^{-2x}-5e^{-4x})$ and describe. The function has a local maximum at $(x=\frac{1}{2}\ln(\frac{10}{3}))$

[MTH381] Let (u(x,y,z)) be a vector field such that (u(0,0,0))=[1,0,1] and $(div u]_{(0, 0,0)}=3.$ Then $(div (x^2+2x+y^2-z^2+5)u]_{(0,0,0)})$ is equal to what? 17

[MTH381] Consider the curve whose equation is $(x^4+y^4+3xy=5.)$ The slope of the tangent line, $(frac{dy}{dx})$, at the point (1,1) is (-1)

[MTH381] A particle moves in a circle according to the equation $(\frac{r}=\cos(t^2)\right)$ +sin(t^2)(hat{j}). The magnitude of the normal component of the acceleration at time (t) is ((t) is

[MTH381] The maximum value of $((xy)^6)$ on the ellipse $(\frac{x^2}{4}+y^2=1)$ occurs at point ((x,y)) for which (y^2) is equal to what? $(\frac{1}{2})$

[MTH381] Evaluate the limit $(\lim_{(x,y)\rightarrow(0,0)}\frac_{xy}{x^2+y^2})$ the limit does not exist

[MTH381] The tangent plane to the graph of the function $(z=x^2y+\frac{1}{1+y^2})$ at the point $((1,1,\frac{3}{2}))$ contains point ((2,2,t)) for which value of (t)?

[MTH381] Two kinds of bacteria are found in a sample of tainted food. It is found that the populations size of type 1,\(N_1\) and of type 2, \(N_2\) satisfy the equations $(\frac{dN_1}{dt}=-k_1N_1, N_1(0)=N_{1,0})$ and $(\frac{dN_2}{dt}=-k_2N_2, N_2(0)=N_{2,0})$. Then the population sizes equal $(N_1=N_2)$ at the following time. $(\frac{dN_1}{dt})$

[MTH381] Consider the vector field $(v(x,y)=2xhat{i}+yhat{j})$ in the xy plane. Let C be a smooth simple closed curve in the xy-plane plane travelled counterclockwise and enclosing the region of area 10. Let (n) denote the outer unit normal vector to C. Then evaluate this integral $(\oint_c v.n ds.$ 30

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