End My Exam 19:19:56

You are taking "Exam (Timed, No Correctness Feedback)" as a timed exam. The timer on the right shows the time remaining in the exam. To receive credit for problems, you must select "Submit" for each problem before you select "End My Exam". **Show Less**

6. Exam

Exam due Oct 15, 2021 21:30 IST Completed

6(a)

2 points possible (graded, results hidden)

Using the Linear Approximation Formula for the function $f(x,y) = \frac{x}{y}$, find an approximation for $\frac{x_0 + \Delta x}{y_0 + \Delta y}$ where

- $x_0 = 2$
- $y_0 = 3$
- $\Delta x = 0.1$
- $\Delta y = 0.1$.

(Enter as an exact expression or correct to three decimal places.)

61/90

? INPUT HELP

6(b)

Find the equation of the tangent plane to the graph of the function $f(x,y) = \frac{x}{y}$ at the point $(2,3)$.

(Note that you do not need to enter z, we have provided it for you. Your answer will involve the variables x and y. Use parentheses to indicate order of operations if needed. Recall that multiplication must be typed explicitly as `*`; e.g. $2x$ should be ent... as

`2*x` . See Input Help button for more information.)

$z =$ x/3-(2*y)/9+2/3

? INPUT HELP

Submit

Answer submitted.

6. Exam

Topic: Exam / 6. Exam

Hide Discussion

Add a Post

Show all posts by recent activity

There are no posts in this topic yet.