

End My Exam 19:15:26 Ø

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8. Exam (3 questions)

Exam due Oct 15, 2021 21:30 IST Completed

8 (a)

1 point possible (graded, results hidden)

Let
$$f(x,y) = xy^3 - x^2y - x + 5$$
.

Compute $f_{x}\left(x,y
ight)$ and $f_{y}\left(x,y
ight)$.

$$f_x\left(x,y
ight) = \left[\begin{array}{c} y^3-2*x*y-1 \end{array}\right]$$

? INPUT HELP

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1 Answer submitted.

8 (b)

1 point possible (graded, results hidden)

As above, let
$$f(x,y)=xy^3-x^2y-x+5$$
.

If we start at the point (2,1) and increase x a little, does the function f increase,

decrease or stay the same?

increase

decrease

stays the same

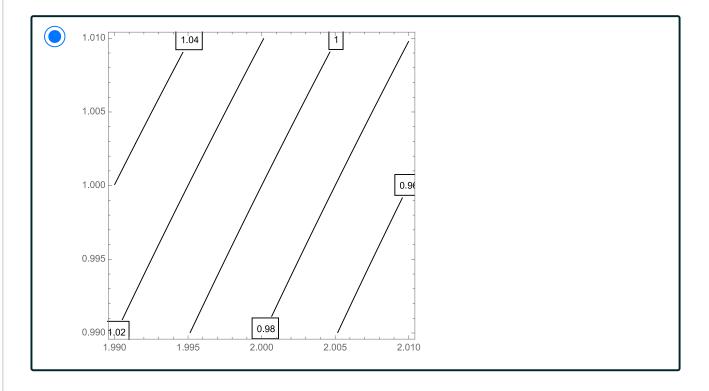
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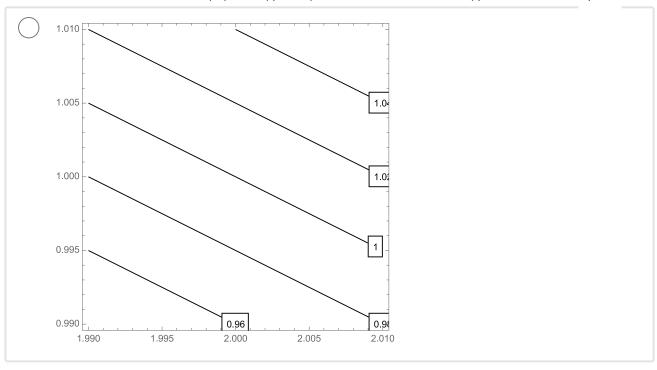
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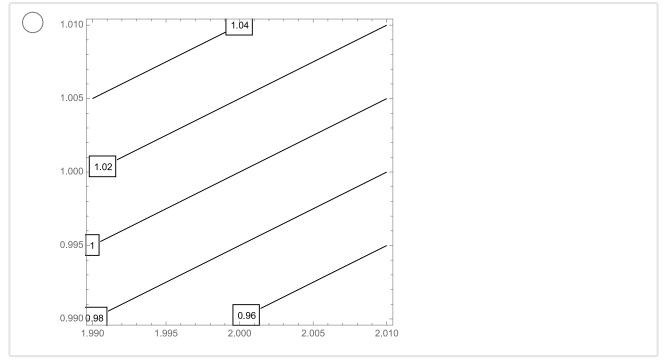
8 (c)

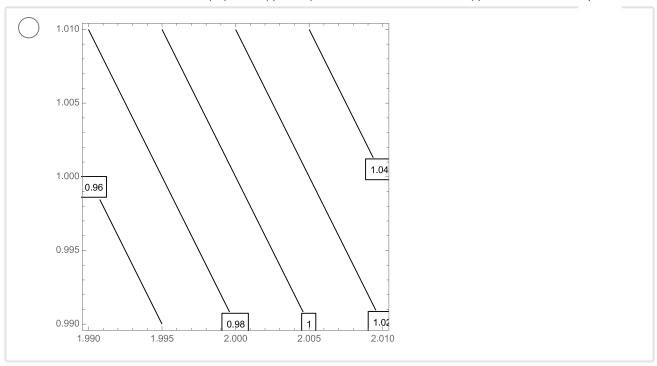
1 point possible (graded, results hidden) As above, let $f\left(x,y
ight)=xy^3-x^2y-x+5$.

Which of the following pictures shows the level curves of f in a small box around (2,1)?









Submit

• Answer submitted.

8. Exam (3 questions)

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