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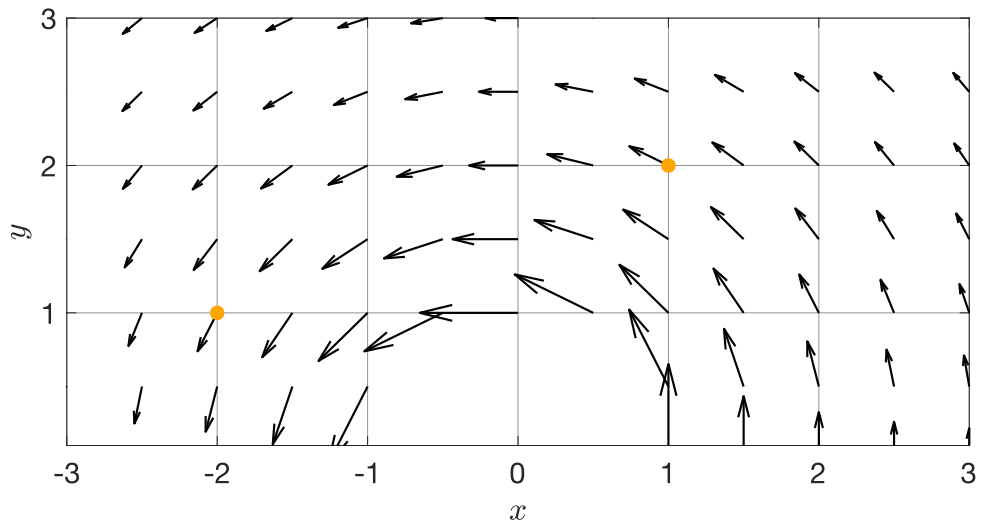
9. Exam (2 problems)

Exam due Oct 15, 2021 21:30 IST Completed

9(a)

1 point possible (graded, results hidden)

The gradient vector field of a function $f(x, y)$ is shown on the picture below.



Which of the following infinitesimal changes of (x, y) will *increase* $f(x, y)$? Select all that apply.

- [ ] Starting from $(x, y) = (1, 2)$, increase x slightly.
- [ ] Starting from $(x, y) = (1, 2)$, decrease y slightly.
- [x] Starting from $(x, y) = (-2, 1)$, decrease y slightly.
- [ ] Starting from $(x, y) = (-2, 1)$, increase x slightly.

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Submit

Answer submitted.

9 (b)

1 point possible (graded, results hidden)

Below is a picture of the gradient of a function f (different function than above).

Let R be the region inside the circle. We would like to find the point (x, y) in R where f is smallest. Find the approximate location of this point in the picture, and label it with the **Minimum Point** tool.

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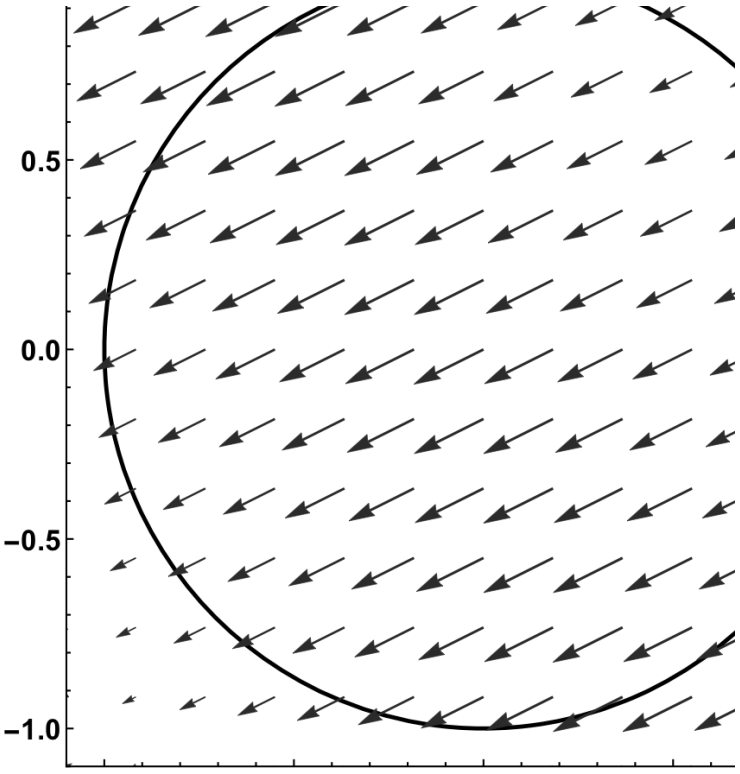

Submit

Answer submitted.

9. Exam (2 problems)

Topic: Exam / 9. Exam (2 problems)

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