

A parallel plate capacitor is attached to a battery which maintains a constant voltage difference V between the capacitor plates. While the battery is attached, the plates are pulled apart. The electrostatic energy stored in the capacitor

- A. increases.
- B. decreases.
- C. stays constant.

I feel that Exam 1 was a fair assessment.

A. Strongly Agree

B. Agree

C. Neither Agree/Disagree

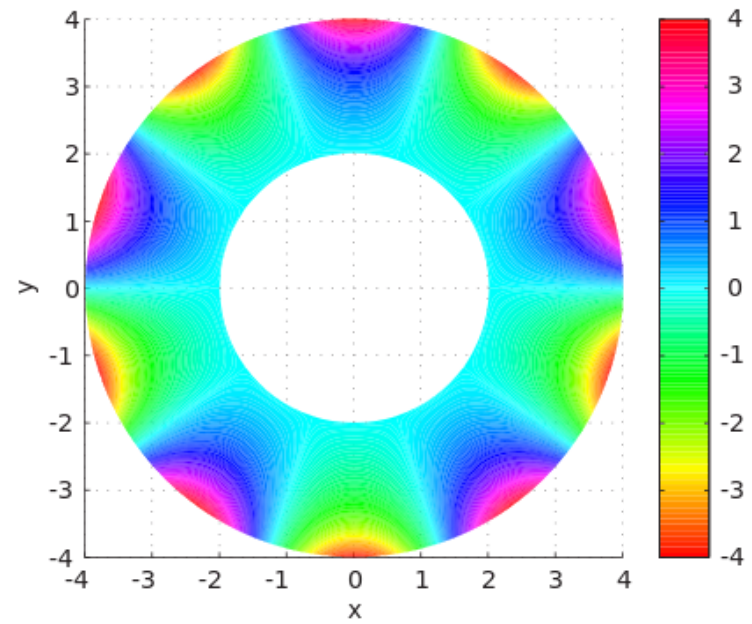
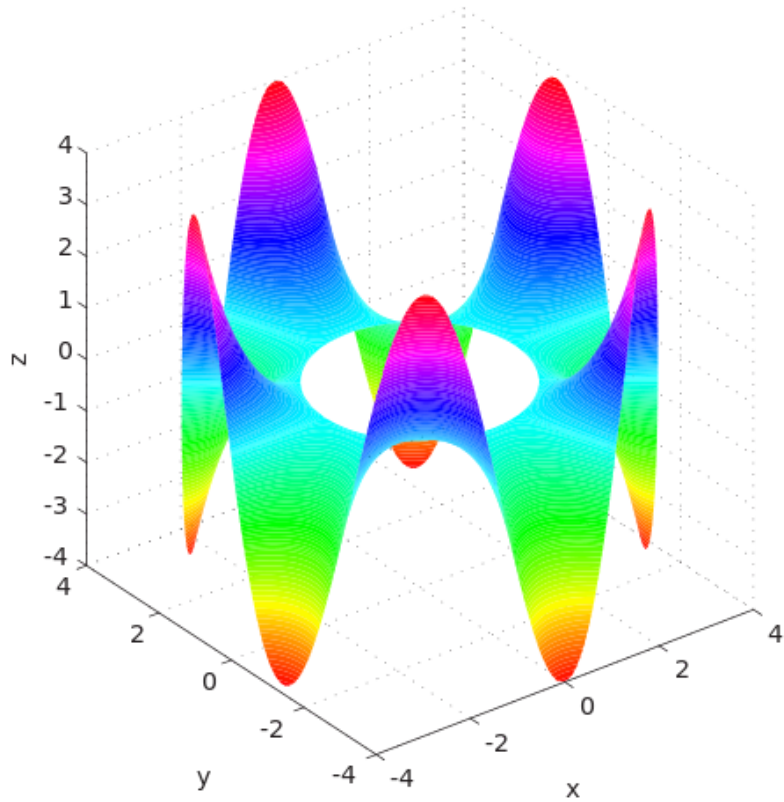
D. Disagree

E. Strongly Disagree

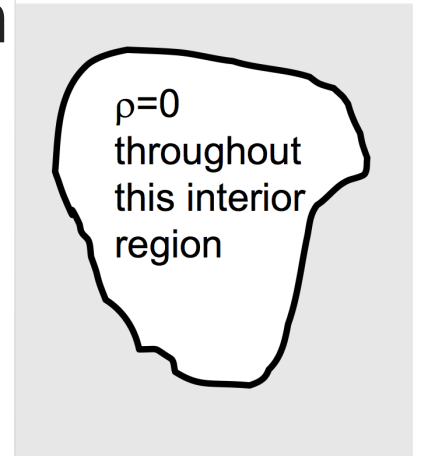
I feel that Exam 1 was aligned with what we have been doing
(in class and on homework).

- A. Strongly Agree
- B. Agree
- C. Neither Agree/Disagree
- D. Disagree
- E. Strongly Disagree

LAPLACE'S EQUATION

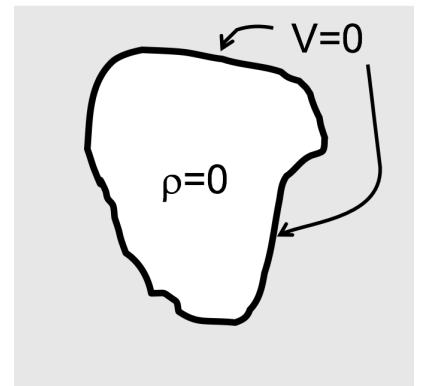


A region of space contains no charges. What can I say about V in the interior?

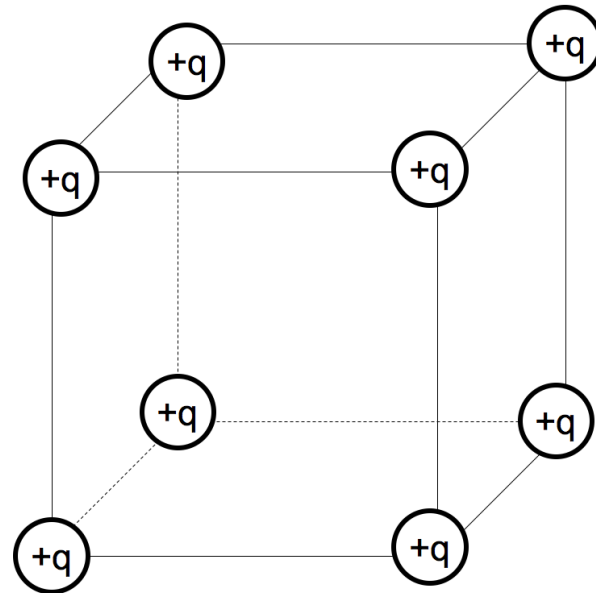


- A. Not much, there are lots of possibilities for $V(r)$ in there
- B. $V(r) = 0$ everywhere in the interior.
- C. $V(r) = \text{constant}$ everywhere in the interior

A region of space contains no charges. The boundary has $V=0$ everywhere. What can I say about V in the interior?



- A. Not much, there are lots of possibilities for $V(r)$ in there
- B. $V(r) = 0$ everywhere in the interior.
- C. $V(r) = \text{constant}$ everywhere in the interior



If you put a positive test charge at the center of this cube of charges, could it be in stable equilibrium?

- A. Yes
- B. No
- C. ???