

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

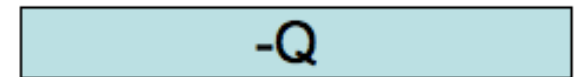
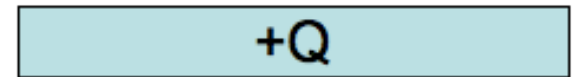
ANNOUNCEMENTS

- Goal: return graded Exam 1 by Monday
- Homework 6 Special problem 1 and 2
 - Solve Exam 1 and turn into Danny on Friday
 - Write a paragraph for each problem on what you needed to do to solve the problem correctly
- Ruxin will cover help sessions next week

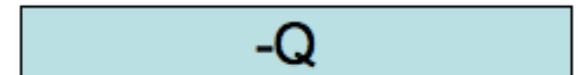
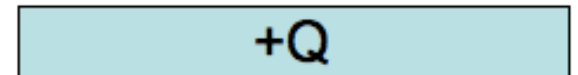
You have two very large parallel plate capacitors, both with the same area and the same charge Q . Capacitor #1 has twice the gap of Capacitor #2. Which has more stored potential energy?

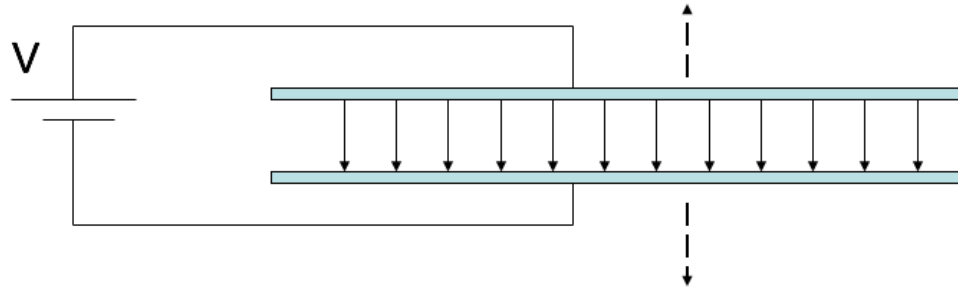
- A. #1 has twice the stored energy
- B. #1 has more than twice
- C. They both have the same
- D. #2 has twice the stored energy
- E. #2 has more than twice.

#1



#2

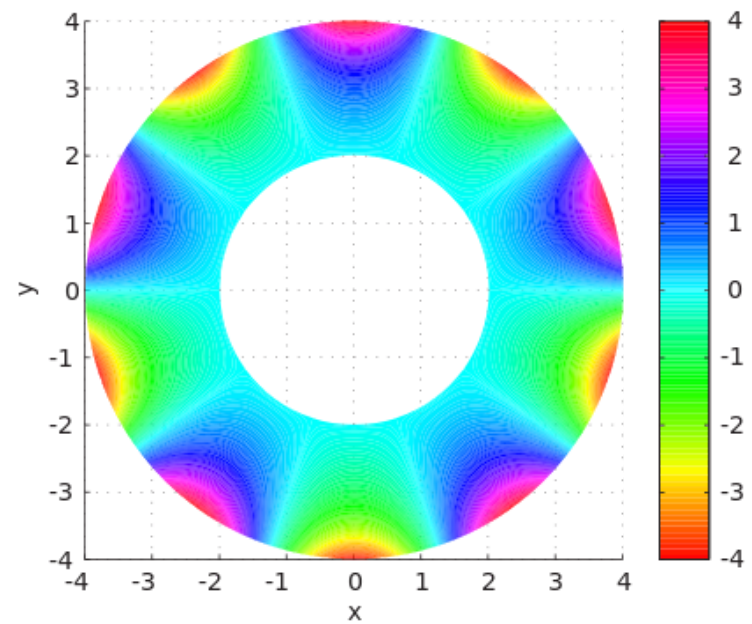
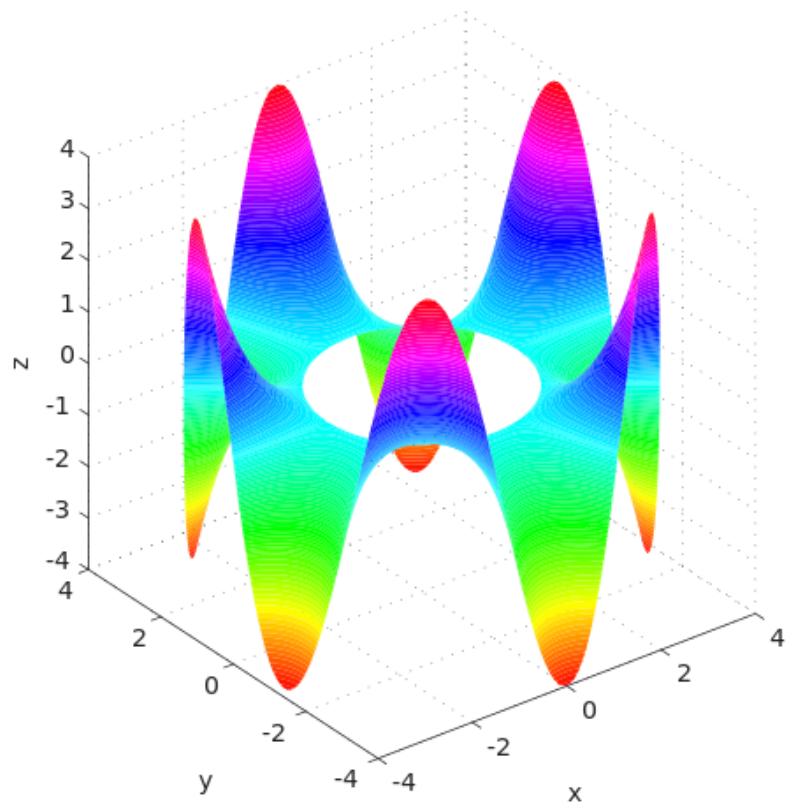




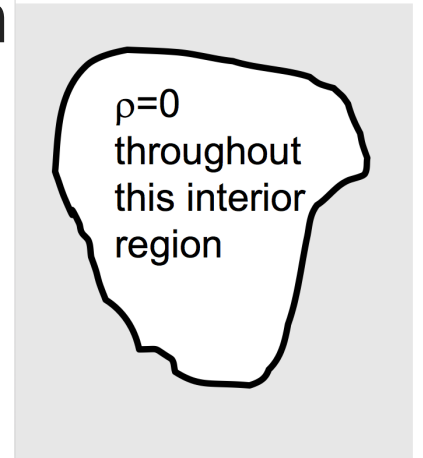
A parallel plate capacitor is attached to a battery which maintains a constant voltage difference V between the capacitor plates. While the battery is attached, the plates are pulled apart. The electrostatic energy stored in the capacitor

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

LAPLACE'S EQUATION

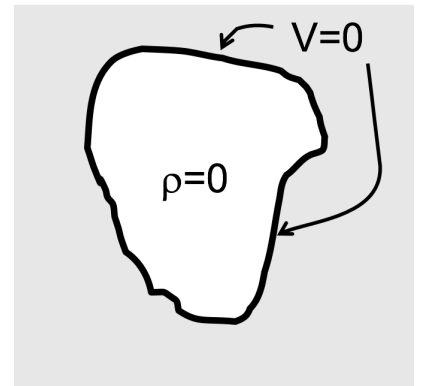


A region of space contains no charges. What can I say about V in the interior?

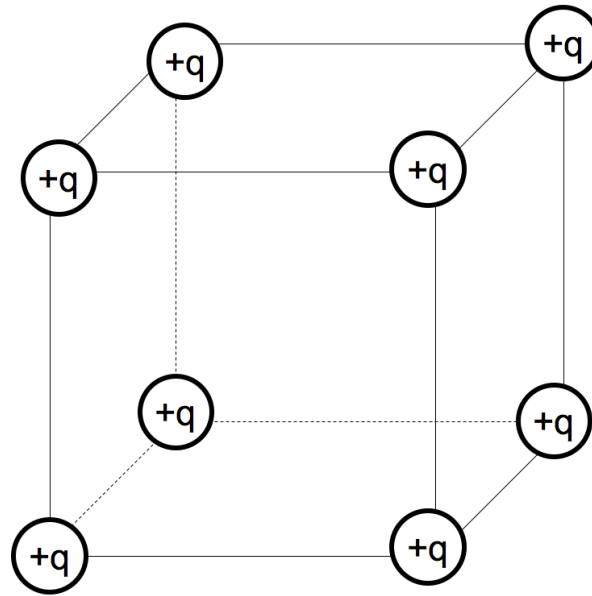


- A. Not much, there are lots of possibilities for $V(r)$ in there
- B. $V(r) = 0$ everywhere in the interior.
- C. $V(r) = \text{constant}$ everywhere in the interior

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. ???