Reminder

The second examination takes place in class on Tuesday, April 11.

The exam covers an open subset of Chapters 4–7.

Exercise on types of points

Some words used to describe various kinds of points:

(A) interior point of a set E

(B) boundary point of a set E

(C) limit point of a set E

(D) isolated point of a set E

Make a Venn diagram showing the relationships among these concepts.

Exercise on types of sets

Which of the following four properties of a set is different from the other three?

1. open
2. closed
3. bounded
4. compact

Exercise on interior and closure

Some properties that two sets E and F might or might not have:

(a) $\overline{E} = \overline{F}$

(b) $E^\circ = F^\circ$

(c) $E \neq F$

(d) $\overline{E^\circ} = F$

(e) $E \cup F = \mathbb{R}$

How many of these properties can two sets E and F satisfy simultaneously?