

MM 18

How should we define  $\partial E$ , the boundary of a set  $E$ ?

Certainly

$$\partial E \subseteq \overline{E}$$

since the boundary could involve pts of  $E$  and pts infinitesimally close to pts of  $E$ .

$$\text{However, } \partial \overline{E} = \partial E^c$$

$$\text{so } \partial E \subseteq \overline{(E^c)}$$