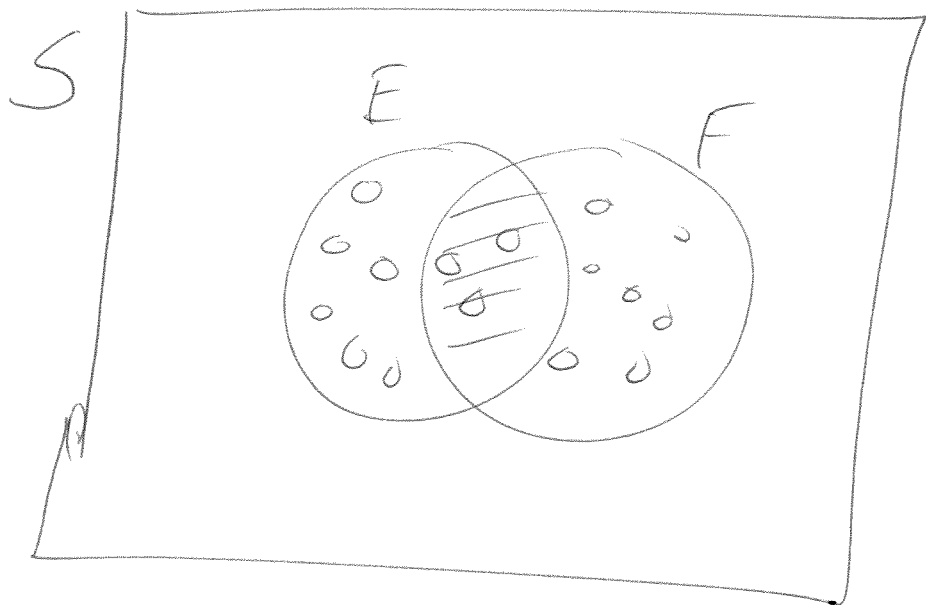


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Figure 1:

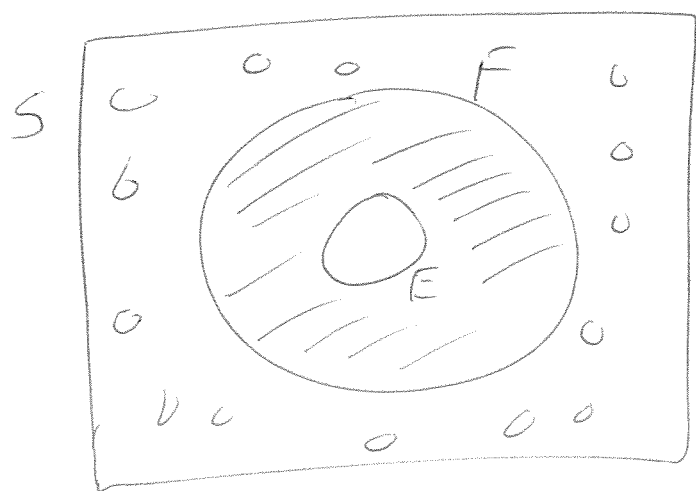


$E \cap F$ is completely inside E , so $E \cap F \subseteq E$

$E \cap F$

E is completely inside $E \cup F$, so $E \subseteq E \cup F$

Figure 2:



F^c is the area marked with \circ
 E^c is all of this together with the area marked \equiv
 so F^c is completely inside E^c ,
 $F^c \subseteq E^c$

Figure 3

