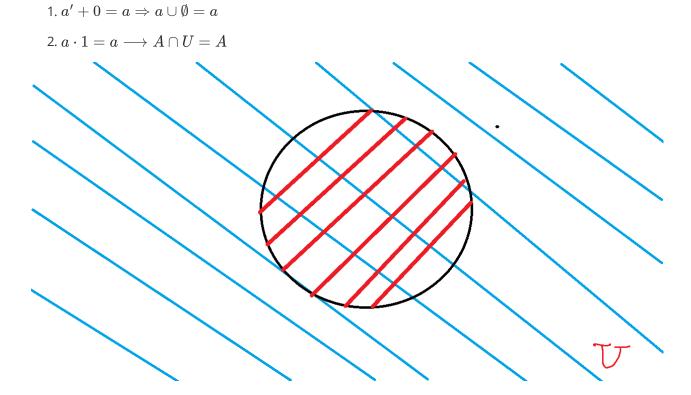
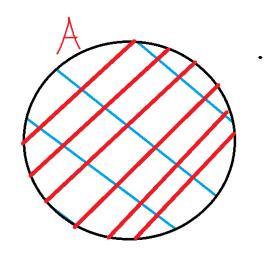
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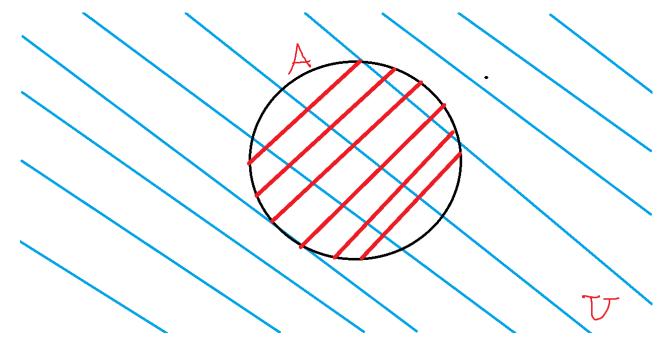
Demostrar los teoremas usando diagramas de Venn





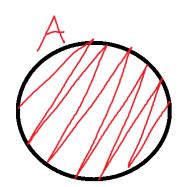








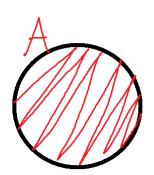
4.
$$a \cdot 0 = 0 \longrightarrow A \cap \emptyset = \emptyset$$



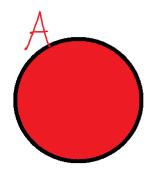




5. $a+a=a\longrightarrow A\cup A=A$

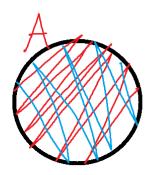




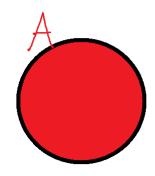




6.
$$a \cdot a = a \longrightarrow A \cap A = A$$

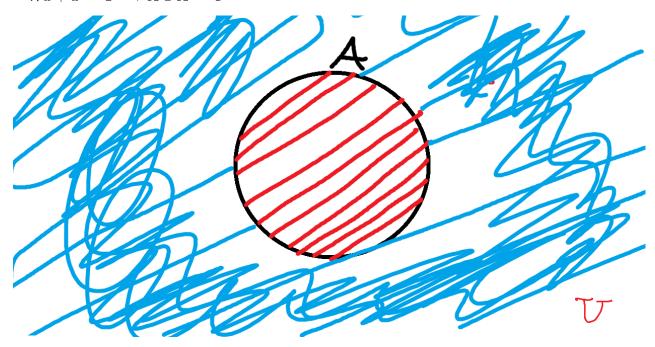






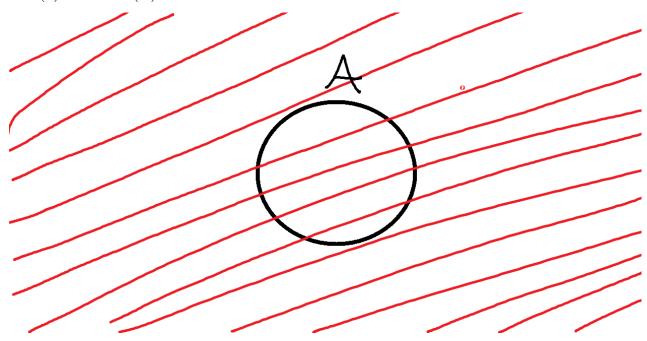


7.
$$a+a'=1\longrightarrow A\cup A'=U$$



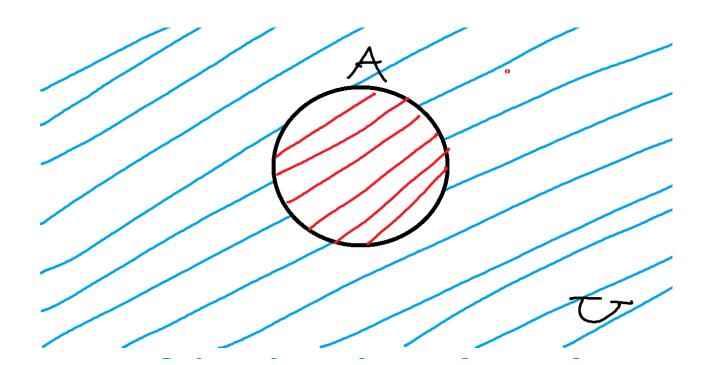


8. $(a)' = a' \longrightarrow (A)' = A$



2b

9. $a\cdot a'=0\longrightarrow A\cap A'$



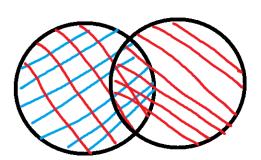
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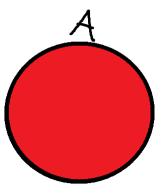
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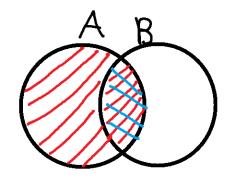
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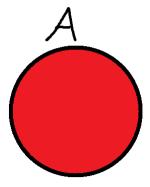




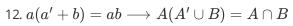


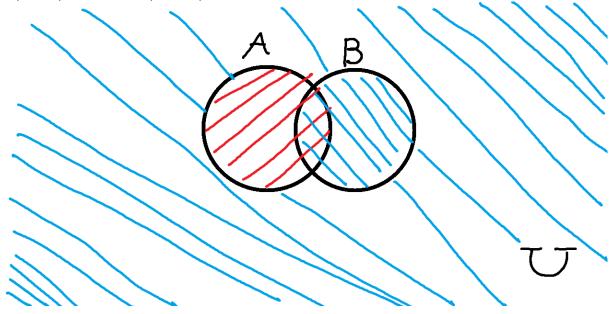


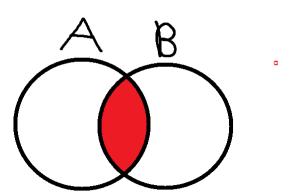




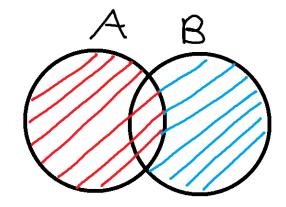




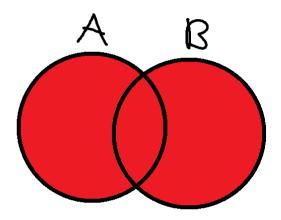




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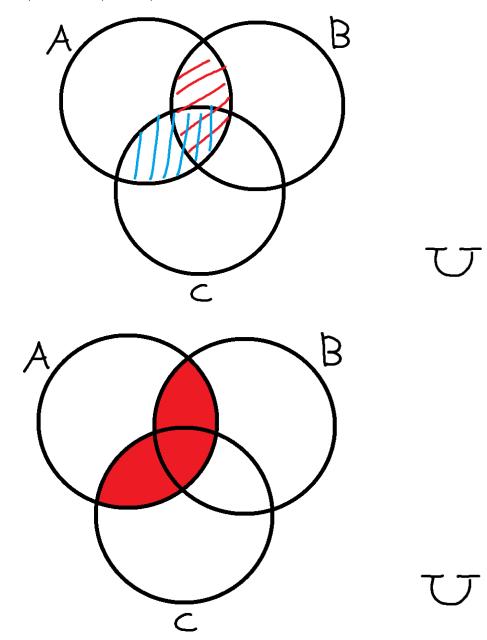




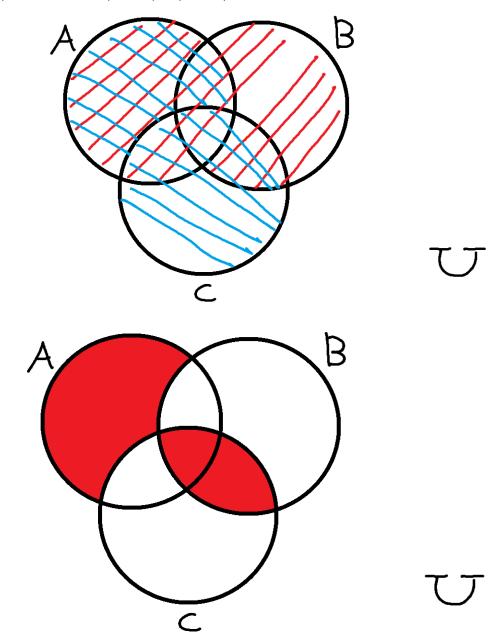


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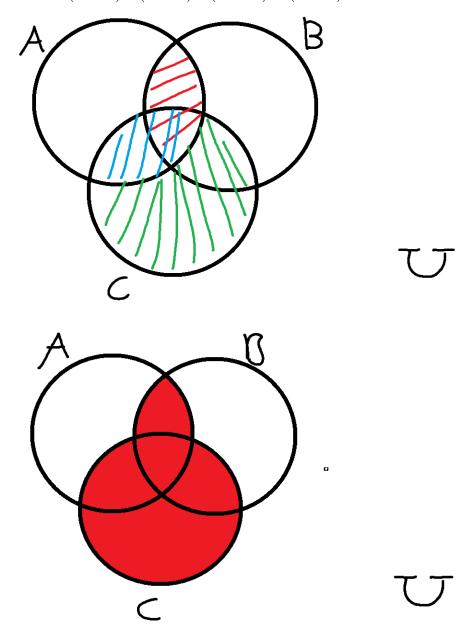
14. $ab+ac=a(b+c)\longrightarrow A\cup (A'\cap B)=A+B$



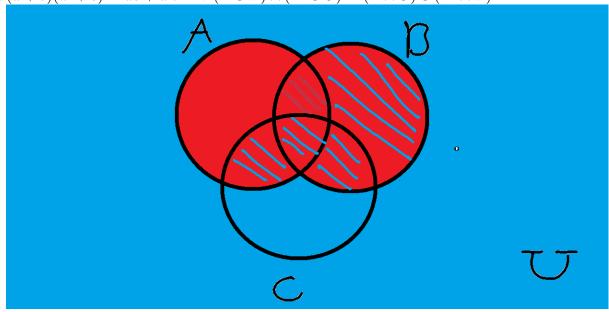
15. $(a+b)(a+c)=a+bc\longrightarrow (A\cup B)\cap (A\cup C)$

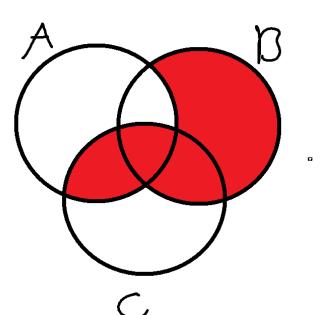


16. $ab+ac+a'c=ab+c\longrightarrow (A\cap B)\cup (A\cap C)\cup (A'\cap C)=(A\cap B)\cup C$



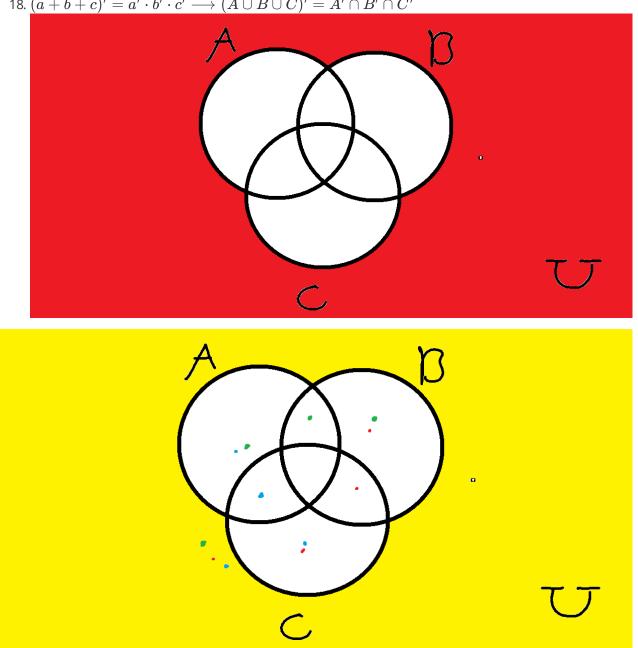
17. $\underline{(a+b)(a'+c)} = ac + a'b \longrightarrow (A \cup B) \cap (A' \cup C) = (A \cap C) \cup (A' \cap B)$

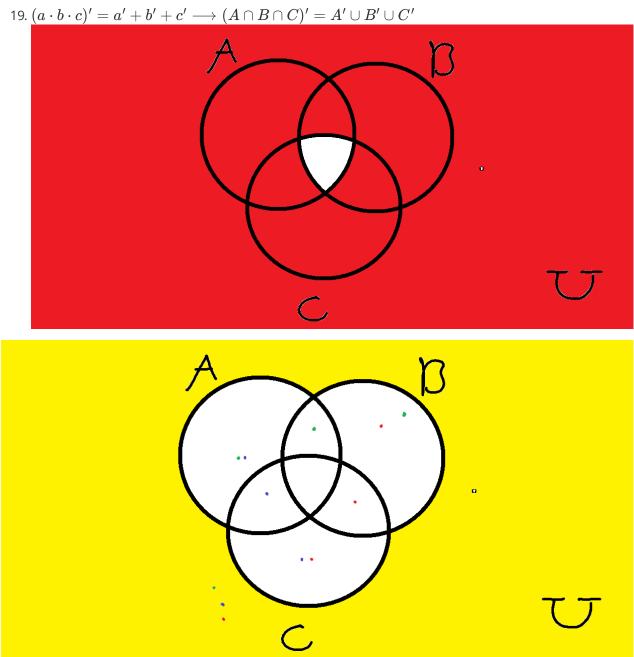




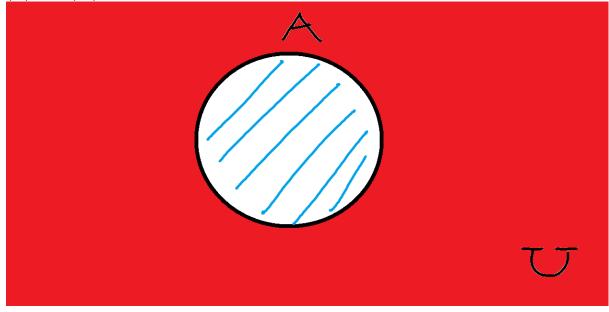
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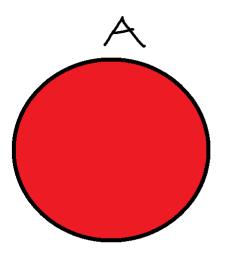
18. $(a+b+c)'=a'\cdot b'\cdot c'\longrightarrow (A\cup B\cup C)'=A'\cap B'\cap C'$











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