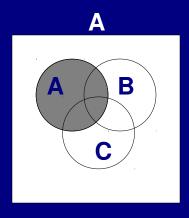
Diagramas de Venn * exemplos *

Lógica de Predicados 2014/2

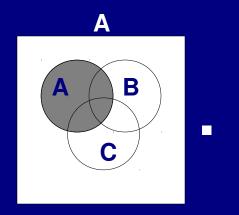
Profa: Daniela Scherer dos Santos daniela.santos37@ulbra.edu.br

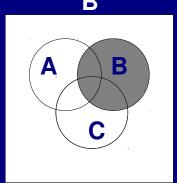




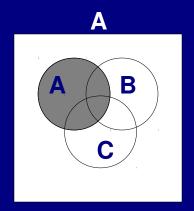


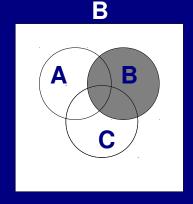


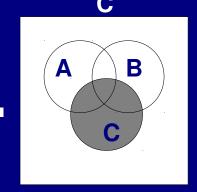




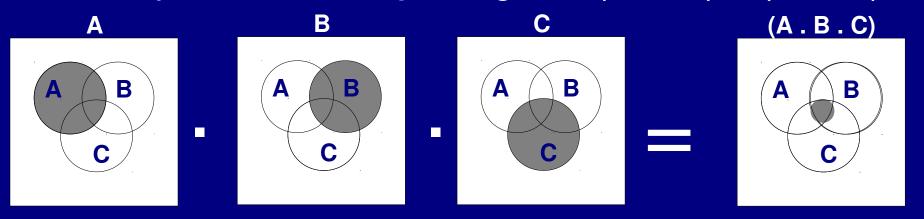














1-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A.B.C)

Α	В	С	A.B	A.B.C
1	1	1	1	1
1	1	0	1	0
1	0	1	0	0
1	0	0	0	0
0	1	1	0	0
0	1	0	0	0
0	0	1	0	0
0	0	0	0	0



1-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica

F(A B C) = (A.B.C)

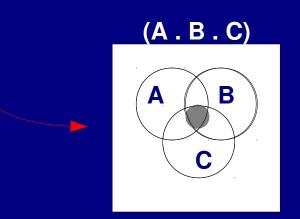
				ABU
Α	В	С	A.B	A.B.C
1	1	1	1	1
1	1	0	1	0
1	0	1	0	0
1	0	0	0	0
0	1	1	0	0
0	1	0	0	0
0	0	1	0	0
0	0	0	0	0



1-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica

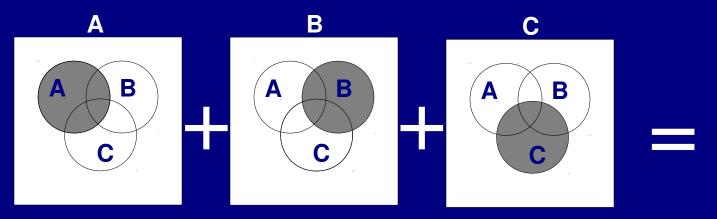
F(ABC) = (A.B.C)

Α	В	С	A.B	A.B.C
1	1	1	1	1
1	1	0	1	0
1	0	1	0	0
1	0	0	0	0
0	1	1	0	0
0	1	0	0	0
0	0	1	0	0
0	0	0	0	0

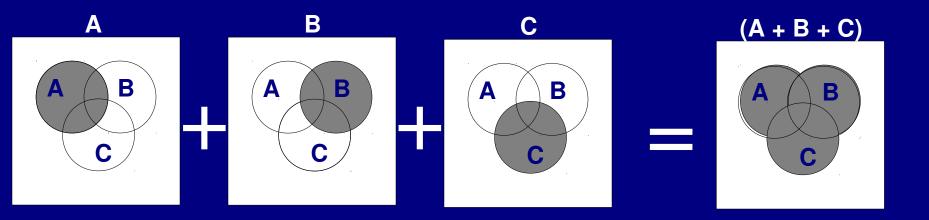














2-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica

F(AB,C) = (A+B+C)

Α	В	С	A+B	A+ B +C
1	1	1	1	1
1	1	0	1	1
1	0	1	1	1
1	0	0	1	1
0	1	1	1	1
0	1	0	1	1
0	0	1	0	1
0	0	0	0	0



2-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica

F(A B,C) = (A+B +C)

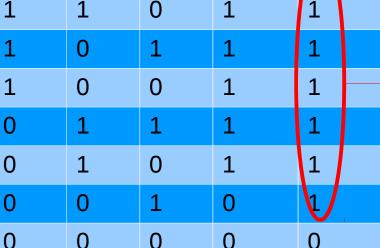
				F(A B
Α	В	С	A+B	A+ B +C
1	1	1	1	<u>/</u> 1
1	1	0	1	1
1	0	1	1	1
1	0	0	1	1
0	1	1	1	1
0	1	0	1	1
0	0	1	0	U
0	0	0	0	0

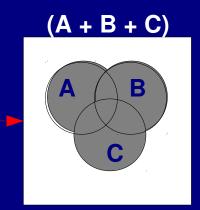


2-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica

F(A B,C) = (A+B +C)

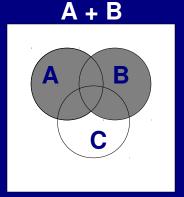
					(AB
Α	В	С	A+B	A+	B +C
1	1	1	1	1	
1	1	0	1	1	
1	0	1	1	1	





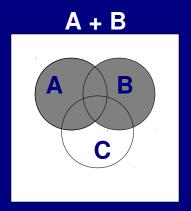


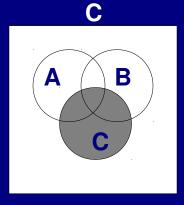






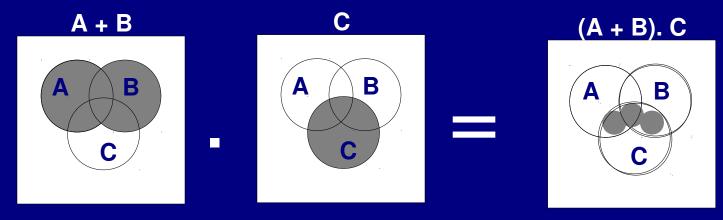
3-Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A+B).C







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3-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A B,C) = (A+B).C

Α	В	С	A + B	(A+ B).C
1	1	1	1	1
1	1	0	1	0
1	0	1	1	1
1	0	0	1	0
0	1	1	1	1
0	1	0	1	0
0	0	1	0	0
0	0	0	0	0



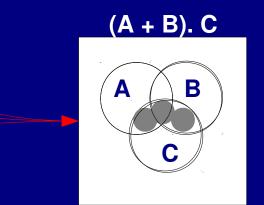
3-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A B,C) = (A+B).C

Α	В	С	A+B	(A+ B).C
1	1	1	1	1
1	1	0	1	0
1	0	1	1	
1	0	0	1	0
0	1	1	1	
0	1	0	1	0
0	0	1	0	0
0	0	0	0	0



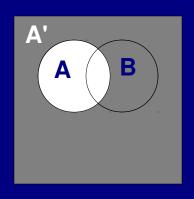
3-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A B,C) = (A+B).C

				<u> </u>
Α	В	С	A + B	(A+ B).C
1	1	1	1	1
1	1	0	1	0
1	0	1	1	1
1	0	0	1	0
0	1	1	1	
0	1	0	1	0
0	0	1	0	0
0	0	0	0	0

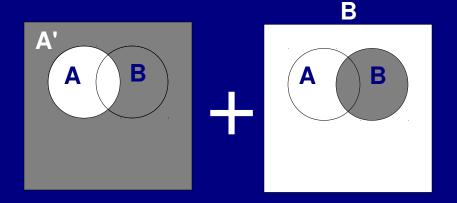




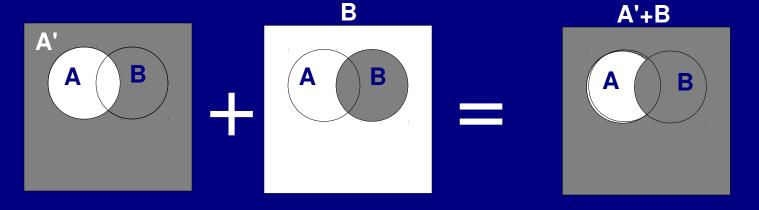














4-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A'+B)

Α	В	A'	A'+B
1	1	0	1
1	0	0	0
0	1	1	1
0	0	1	1



4-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A'+B)

Α	В	A'	A'+B
1	1	0	1
1	0	0	0
0	1	1	1
0	0	1	1

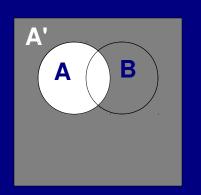


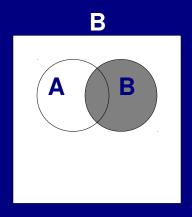
4-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A'+B)

Α	В	A'	A'+B	A'+B
1	1	0	1	AB
1	0	0	0	A
0	1	1	1	
0	0	1	1	

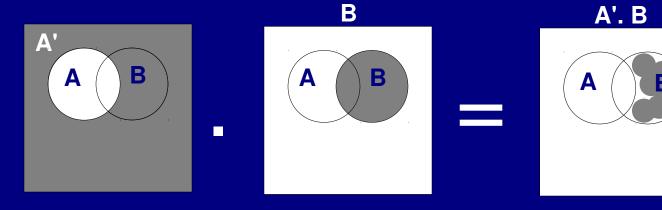














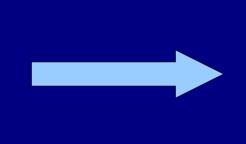
5-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A'.B)

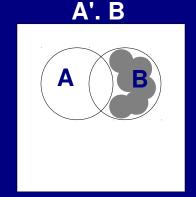
Α	В	A'	A'.B
1	1	0	0
1	0	0	0
0	1	1	1
0	0	1	0



5-(usando a tabela verdade)Exercício Exemplo: Desenhar o diagrama de Venn que representa a função lógica F(A,B,C) = (A'.B)

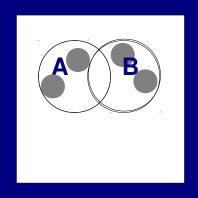
Α	В	A'	A'.B
1	1	0	0
1	0	0	0
0	1	1	
0	0	1	0





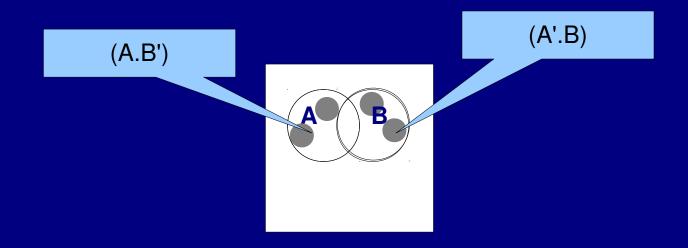


6-Exercício Exemplo: Determinar a função das áreas hachuradas no diagrama de Venn a seguir





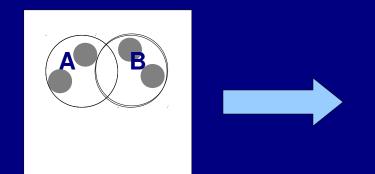
6-Exercício Exemplo: Determinar a função das áreas hachuradas no diagrama de Venn a seguir



$$F(A,B) = (A.B') + (A'.B)$$



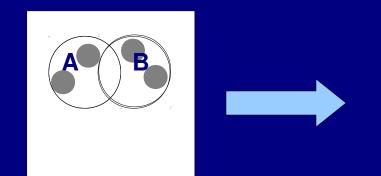
6-(usando a tabela verdade)Exercício Exemplo: Determinar a função das áreas hachuradas no diagrama de Venn a seguir



Α	В	F(A,B,C)
1	1	
1	0	1
0	1	1
0	0	



6-(usando a tabela verdade)Exercício Exemplo: Determinar a função das áreas hachuradas no diagrama de Venn a seguir



Α	В	F(A,B,C)
1	1	
1	0	1
0	1	1
0	0	

$$F(A,B) = (A.B')+(A'.B)$$



