

TAREAS Bloque 0 Part 1

Recordando que:

		Q	
		1	0
P	1	1	1
	0	1	0
OR			

		Q	
		1	0
P	1	1	0
	0	0	0
AND			

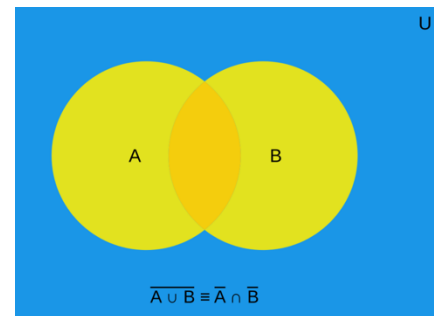
		NOT
P	1	0
	0	1

- 1- Construya una expresión lógica equivalente a un OR usando solo AND y NOT.

Usando la ley de Morgan tendremos que:

$$P \text{ OR } Q = \text{NOT}(\text{NOT}(P) \text{ AND } \text{NOT}(Q))$$

			Q	
			1	0
NOT			0	1
P	1	0	<u>NOT(0)=1</u>	<u>NOT(0)=1</u>
	0	1	<u>NOT(0)=1</u>	<u>NOT(1)=0</u>
AND				



- 2- Construya una expresión lógica equivalente a un AND usando solo OR y NOT.

$$P \text{ AND } Q = \text{NOT}(\text{NOT}(P) \text{ OR } \text{NOT}(Q))$$

			Q	
			1	0
NOT			0	1
P	1	0	<u>NOT(0)=1</u>	<u>NOT(1)=0</u>
	0	1	<u>NOT(1)=0</u>	<u>NOT(1)=0</u>
OR				

