Part D. These are the laws of logic we discussed above. Give complete truth-tables for these pairs of sentence forms to show that they are equivalent. Be sure to label the columns as "sent 1," "sent 2," or "aux." Use the space on these two pages efficiently.

1.	~(~p)	=	p	Double Negation
2a.	~(p & q)	=	~p V ~q	De Morgan's Laws
2b.	~(p V q)	=	~p & ~q	De Morgan's Laws
3.	p ⊃ q	=	~q ⊃ ~p	Contraposition
4.	p ⊃ q	=	~p V q	Conditional Relation
5.	p ≡ q	=	(p ⊃ q) & (q ⊃ p)	Bicondition
6.	(p & q) ⊃ r	=	p ⊃ (q ⊃ r)	Exportation
7a.	p & p	=	p	Duplication
7b.	p V p	=	p	Duplication
8a.	p & q	=	q & p	Commutation
8b.	p V q	=	q V p	Commutation
9a.	p & (q & r)	=	(p & q) & r	Association
9b.	p V (q V r)	=	(p V q) V r	Association
10a.	p & (q v r)	=	(p & q) V (p & r)	Distribution
10b.	p V (q & r)	=	(p V q) & (p V r)	Distribution

Name _____ / _____