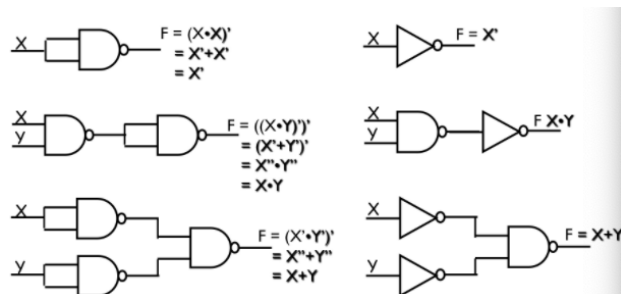


Digital Logic Cheat Sheet

- Similar materials to that below would be on the cheat sheet with more comprehensive formatting and titles



XOR: "not-equal" gate



X	Y	$F = X \oplus Y$
0	0	0
0	1	1
1	0	1
1	1	0

XNOR: "equal" gate



X	Y	$F = \overline{X \oplus Y}$
0	0	1
0	1	0
1	0	0
1	1	1

Identity:	$X + 0 = X$	Dual: $X \cdot 1 = X$
Null:	$X + 1 = 1$	Dual: $X \cdot 0 = 0$
Idempotent:	$X + X = X$	Dual: $X \cdot X = X$
Involution:	$(X')' = X$	
Complementarity:	$X + X' = 1$	Dual: $X \cdot X' = 0$
Commutative:	$X + Y = Y + X$	Dual: $X \cdot Y = Y \cdot X$
Associative:	$(X + Y) + Z = X + (Y + Z)$	Dual: $(X \cdot Y) \cdot Z = X \cdot (Y \cdot Z)$
Distributive:	$X \cdot (Y + Z) = (X \cdot Y) + (X \cdot Z)$	Dual: $X + (Y \cdot Z) = (X + Y) \cdot (X + Z)$
Uniting:	$X \cdot Y + X \cdot Y' = X$	Dual: $(X + Y) \cdot (X + Y') = X$