

Last Name	Jeiole	First Name	Matthew	Period	2
W15/16 DE VOTING MACHINE					
	P	V	S	T	Minterm
X	0	0	0	0	
X	0	0	0	1	
X AP	0	0	1	0	
X·P	0	0	1	1	
X	0	1	0	0	
X·P	0	1	0	1	
X·P	0	1	1	0	
✓	0	1	1	1	PVST ✓
X	1	0	0	0	
✓	1	0	0	1	P \bar{V} \bar{S} T ✓
✓	1	0	1	0	P \bar{V} S \bar{T} ✓
✓	1	0	1	1	P \bar{V} ST ✓
✓	1	1	0	0	PV \bar{S} \bar{T} ✓
✓	1	1	0	1	PV \bar{S} T ✓
✓	1	1	1	0	PVS \bar{T} ✓
✓	1	1	1	1	PVST ✓

Th. 16 $x + \bar{x}y = x + y$

RECEIVED

NOV 14 2014

$$F_1 = \bar{P}VST + P\bar{V}\bar{S}T + P\bar{V}S\bar{T} + P\bar{V}ST + PV\bar{S}\bar{T} + PV\bar{S}T + PV\bar{S}\bar{T} + PVST$$

$$F_1 = \bar{P}VST + P(\bar{V}\bar{S}T + \bar{V}S\bar{T} + \bar{V}ST + V\bar{S}\bar{T} + V\bar{S}T + VS\bar{T} + VST)$$

$$F_1 = \bar{P}VST + P(\bar{V}(\bar{S}T + S\bar{T} + ST) + V(\bar{S}\bar{T} + \bar{S}T + S\bar{T} + ST))$$

$$F_1 = \bar{P}VST + P(\bar{V}(\bar{S}T + S(\bar{T} + T)) + V(\bar{S}(\bar{T} + T) + S(\bar{T} + T)))$$

$$F_1 = \bar{P}VST + P(\bar{V}(S + \bar{S}T) + V(\bar{S} + S))$$

$$F_1 = \bar{P}VST + P(\bar{V}(S + T) + V)$$

$$F_1 = \bar{P}VST + P(V + \bar{V}(S + T))$$

$$F_1 = \bar{P}VST + P(V + S + T)$$

$$F_2 = \bar{P}UST + PV + PS + PT$$

$$F_2 = V(P + U)$$

$$F_2 = U(\bar{P}ST + P) + PS + PT$$

$$F_2 = V(P + (ST)) + PS + PT$$

$$F_2 = UP + UST + PS + PT$$

$$F_2 = VST + P(U + S + T)$$