

Computer Systems

**Week 1 Assessment Tasks**  
**SIT111 - Task 1.3P**

P	Q	R	f(P,Q,R)	Minterm	Maxterm
0	0	0	1	$P'.Q'.R'$	
0	0	1	0		$P+Q+R'$
0	1	0	1	$P'.Q.R'$	
0	1	1	0		$P+Q'+R'$
1	0	0	1	$P.Q'.R'$	
1	0	1	0		$P'+Q+R'$
1	1	0	0		$P'+Q'+R$
1	1	1	1	$P.Q.R$	

$$\text{SOP} = (P'.Q'.R')+(P'.Q.R')+(P.Q'.R')+(P.Q.R)$$

$$\text{POS} = (P+Q+R').(P+Q'+R').(P'+Q+R').(P'+Q'+R)$$