

Assignment # 10.1 Sample

1. Recast the decision problem for the Boolean expression $(a + b) (a + \sim b + c) (\sim b)$ as a SubsetSum problem using the construction discussed in class.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>a + b + b</i>	<i>a + ~ b + c</i>	<i>~ b + ~ b + ~ b</i>
<i>a</i>						
<i>~a</i>						
<i>b</i>						
<i>~b</i>						
<i>c</i>						
<i>~c</i>						
<i>C1</i>						
<i>C1'</i>						
<i>C2</i>						
<i>C2'</i>						
<i>C3</i>						
<i>C3'</i>						
	1	1	1	3	3	3

Assignment # 10.2,3 Sample

2. Recast the SubsetSum problem $(8, 7, 6, 4, 6, 8, 2, 7, 2)$, $G=19$ as a Partition Problem using the construction discussed in class.
3. Recast the decision problem for the Boolean expression $(a + b) (a + \sim b + c) (\sim b)$ as an Integer Linear Programming problem using the construction discussed in class.