

Quantum Computing HW1 Problem 6

6.

$a_1$	$a_2$	$a_3$	$a_4$	$b_{12}$	$b_{13}$	$b_{14}$	$b_{23}$	$b_{24}$	$b_{34}$
1	1	1	4	2	-2	-4	-2	-4	4

  

$q_1$	$q_2$	$q_3$	$q_4$	Objective
0	0	0	0	0
0	0	0	1	4
0	0	1	0	1
0	0	1	1	9
0	1	0	0	1
0	1	0	1	1
0	1	1	0	0
0	1	1	1	4
1	0	0	0	1
1	0	0	1	1
1	0	1	0	0
1	0	1	1	4
1	1	0	0	4
1	1	0	1	0
1	1	1	0	1
1	1	1	1	1