Q: f(x) = 
$$\pi_1^2 + \chi_2^2$$
 maximized.

cr:na	Zni-fial Population	Lust	%	Number	Mating	Mate	Charane	New	Lex
String	Population	JUN	total	Selected	pool	1	Site	Population	<i>y</i> C
ſ	11001000					3	3	<u>'</u>	
2	0(11 001)					4	3		
3	01011000					5	6		
4	[010 0100]					2	6		
5	100/001					1	6		
				•				1	_
Total							Tota		
Average							Avera	je	
	J								

1101 1000 0/00 0[1] 

## Solution O

String	Zni-lial Population	f(x)	% total	Number Selected	1 . ~	Mate	.   Crassover	1	(fex)
- 1	[[00[000		37.08	2	[100   000			Population	+-
2	0(1   001)	58	10.3f	0	0001 00 II	3 4	3	13 8	233
	7 3		(C 0[		0[0] 1000	5	3	0 101 10 11	160
3	5 8	89	15-86	,		2		5 11	146
4	[010 0100	116	20.68	1	6010 0101	_	6	10 0 100	116
5	[00] 001]	90	16-04		100 001	1	6	9 0000	81
Total		561					Tota		736
Average		[[2-2					Averas	30	
			1			1	V		147.2
ſ	( (								
8	421							•	

φ	100 1000 1010 0100 0101 1000 1100 1000	3 4 5 2	3 3 6 6	10   0   0   0   0   10   0	0000
5	1100 1000	1 ]	<u> </u>	1100	1000
5	1100 1000	1 ]	<b>/</b>	1100	1000