

```
1: ClrHome
2: Disp "HYPERSPHERE"
3: Input "NUM DIMENSIONS:",N
4: N+1→P
5: "Create Matrix
6: {P,N}→dim([A])
7: {N,P}→dim([B])
8: For(I,1,P)
9: Disp "COORDINATES FOR", "POINT", I
10: For(J,1,N)
11: Disp "DIMENSION ",J
12: Input "VALUE: ",X
13: X→[A](I,J)
14: End
15: End
16: For(I,1,N)
17: Ø→X
18: For(J,1,N)
19: -2*([A](I,J) - [A](I+1,J))→[B](I,J)
20: ([A](I,J))2 - ([A](I+1,J))2 +X→X
21: End
22: -X→[B](I,P)
23: End
24: rref([B])→[C]
25: Ø→X
26: Disp "Answers:"
27: For(I,1,N)
28: Disp [C](I,P)
29: ([A](1,I) - [C](I,P))2 +X→X
30: End
31: Disp "Constant=",X
32: Pause "Done..."
33:
```