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Editor – untitled4 *

untitled4 *

```
1   %myTrigTable
2
3   % 1. Create a table of all the 3 trig functions for angles from 0 to 2pi,
4   % with a spacing(:) of 0.1 radians.
5
6   x=0: 0.1: 2*pi;
7
8   s=sin(x);
9   c=cos(x);
10  t=tan(x);
11  disp('angle(radians) sine cosine tangent');
12  Table= [x', s', c' t']
13
14  %2.Create the following matrices:
15
16  a=[15,3,22 ; 3,8,5; 14,3,82]
17
18  b=[1;5;6]
19
20  c=[12,18,5,2]
21
22  %(a)Create a matrix called d from the third column of matrix a
23
24  d= [22;5;82]
25  %(b)Combine matrix b and matrix d to create matrix e, a two-dimensional
26  %matrix with three rows and two columns.
27
28  e= [b,d]
29
30  %(c) Combine matrix b and matrix d to create matrix f, a one-dimensional
31  %matrix with six rows and one column.
32
33  f=[b;d]
34
35  %(D) Create a matrix g from a and the first three elements of matrix c,
36  %with four rows and three columns.
37
38  j=c(1:4) % from row 1 to column 4
```

Zoom: 110% | UTF-8 | LF | script | Ln 53 | Col 1

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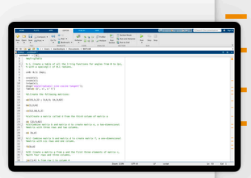
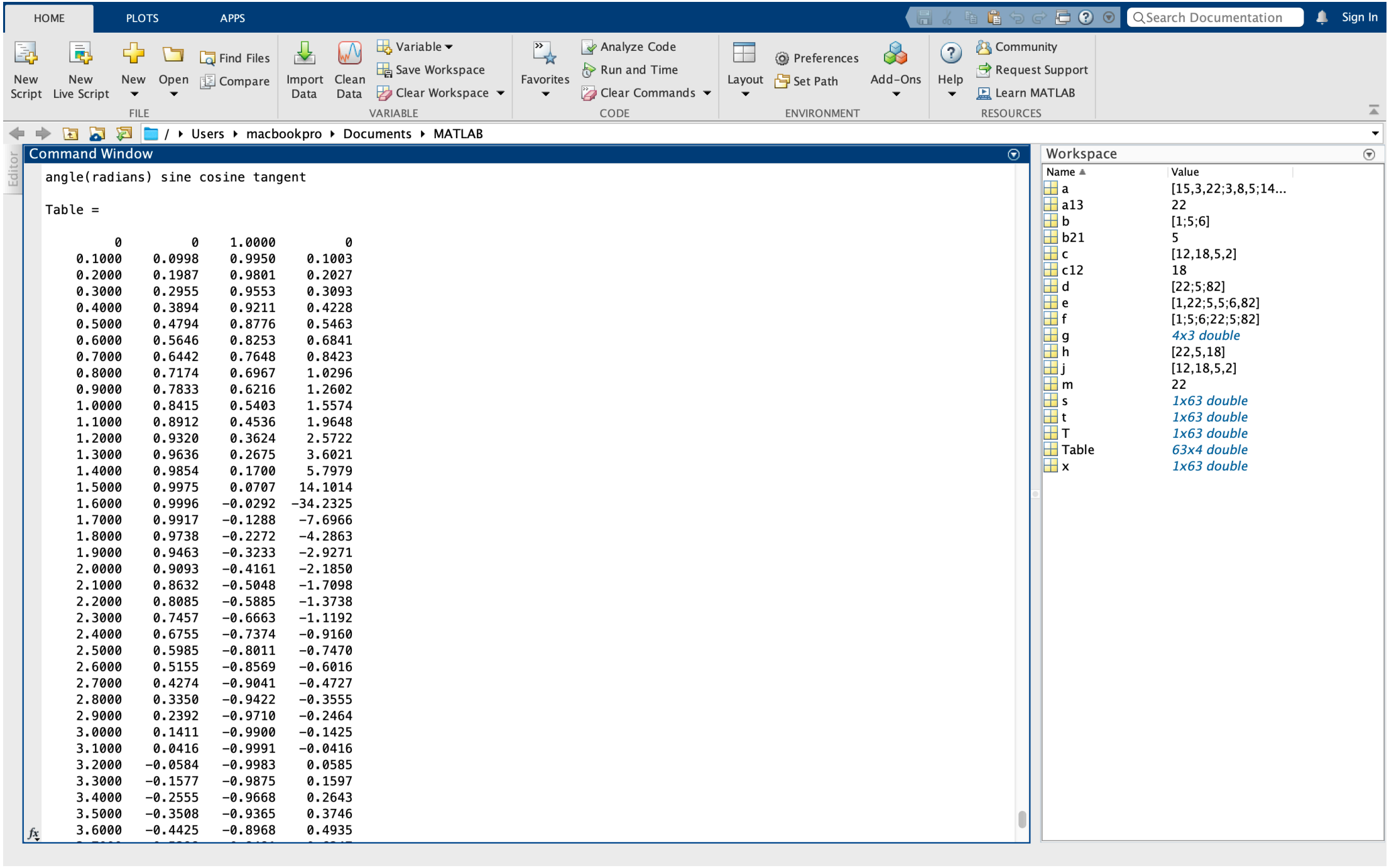
31  %matrix with six rows and one column.
32
33  f=[b;d]
34
35  %(D) Create a matrix g from a and the first three elements of matrix c,
36  %with four rows and three columns.
37
38  j=c(1:4) % from row 1 to column 4
39
40  g=[a;c(1:3)] % g= [ matrix of a; extract of the first row to the third column
41
42
43  %(E) Create a matrix h with the first element equal to a13, the second
44  %element equal to c12 and the third element equal to b21.
45
46  a13= a(1,3) % extract element matrix a from row 1, column 3
47
48  c12= c(1,2) % extract element matrix c from row 1, column 2
49
50  b21= b(2,1) %extract element matrix b, from row 2, column 1
51
52  h= [a13,b21,c12]
53
54
55
56
57
58
```



Zoom: 110% | UTF-8 | LF | script | Ln 53 | Col 1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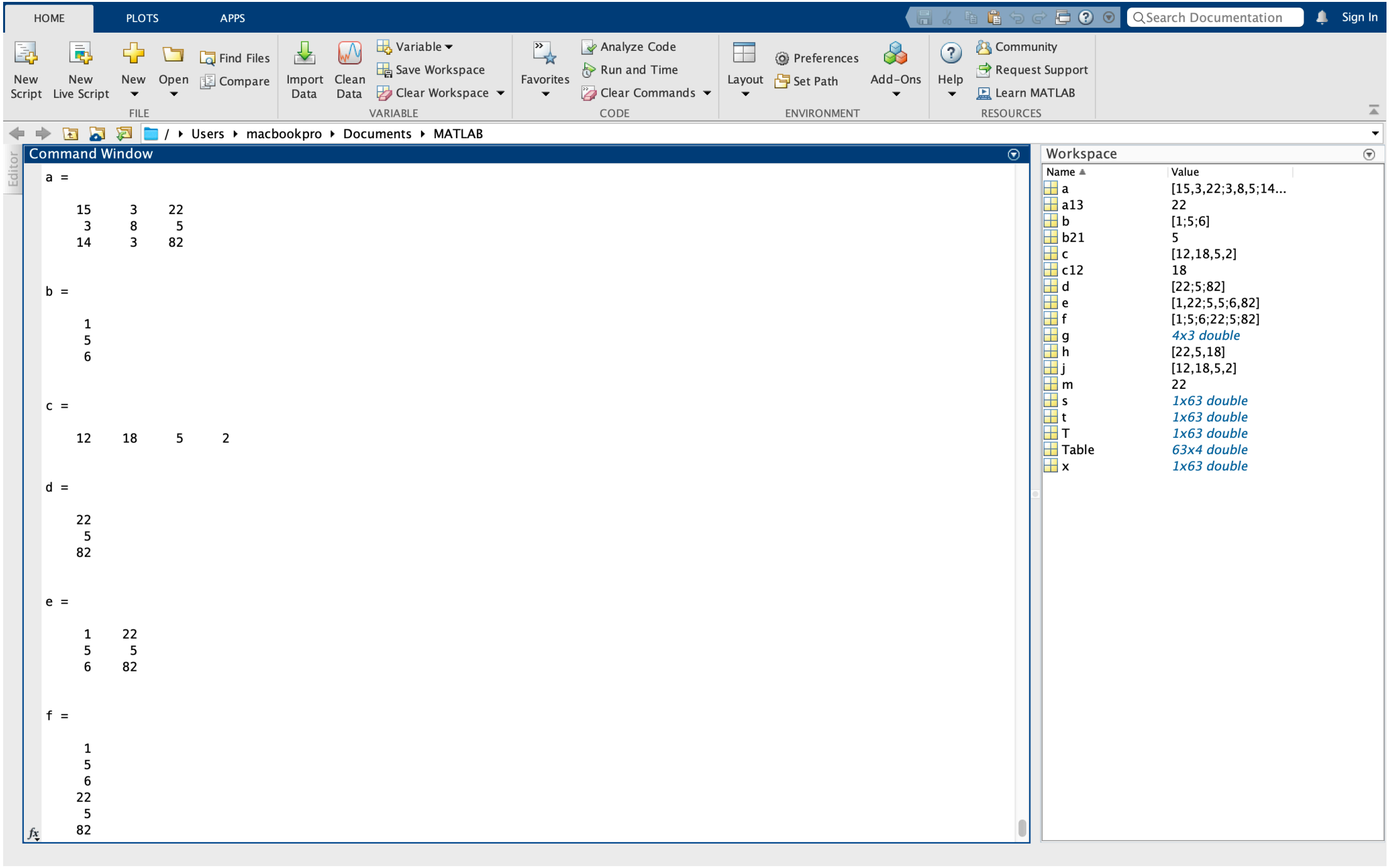
angle(radians) sine cosine tangent
Table =
0 0 1.0000 0
0.1000 0.0998 0.9950 0.1003
0.2000 0.1987 0.9801 0.2027
0.3000 0.2955 0.9553 0.3093
0.4000 0.3894 0.9211 0.4228
0.5000 0.4794 0.8776 0.5463
0.6000 0.5646 0.8253 0.6841
0.7000 0.6442 0.7648 0.8423
0.8000 0.7174 0.6967 1.0296
0.9000 0.7833 0.6216 1.2602
1.0000 0.8415 0.5403 1.5574
1.1000 0.8912 0.4536 1.9648
1.2000 0.9320 0.3624 2.5722
1.3000 0.9636 0.2675 3.6021
1.4000 0.9854 0.1700 5.7979
1.5000 0.9975 0.0707 14.1014
1.6000 0.9996 -0.0292 -34.2325
1.7000 0.9917 -0.1288 -7.6966
1.8000 0.9738 -0.2272 -4.2863
1.9000 0.9463 -0.3233 -2.9271
2.0000 0.9093 -0.4161 -2.1850
2.1000 0.8632 -0.5048 -1.7098
2.2000 0.8085 -0.5885 -1.3738
2.3000 0.7457 -0.6663 -1.1192
2.4000 0.6755 -0.7374 -0.9160
2.5000 0.5985 -0.8011 -0.7470
2.6000 0.5155 -0.8569 -0.6016
2.7000 0.4274 -0.9041 -0.4727
2.8000 0.3350 -0.9422 -0.3555
2.9000 0.2392 -0.9710 -0.2464
3.0000 0.1411 -0.9900 -0.1425
3.1000 0.0416 -0.9991 -0.0416
3.2000 -0.0584 -0.9983 0.0585
3.3000 -0.1577 -0.9875 0.1597
3.4000 -0.2555 -0.9668 0.2643
3.5000 -0.3508 -0.9365 0.3746
3.6000 -0.4425 -0.8968 0.4935
Workspace
Name
Value
a [15,3,22;3,8,5;14...
a13 22
b [1;5;6]
b21 5
c [12,18,5,2]
c12 18
d [22;5;82]
e [1,22;5,5;6,82]
f [1;5;6;22;5;82]
g 4x3 double
h [22,5,18]
j [12,18,5,2]
m 22
s 1x63 double
t 1x63 double
T 1x63 double
Table 63x4 double
x 1x63 double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a =
15 3 22
3 8 5
14 3 82
b =
1
5
6
c =
12 18 5 2
d =
22
5
82
e =
1 22
5 5
6 82
f =
1
5
6
22
5
82
Workspace
Name
Value
a [15,3,22;3,8,5;14...
a13 22
b [1;5;6]
b21 5
c [12,18,5,2]
c12 18
d [22;5;82]
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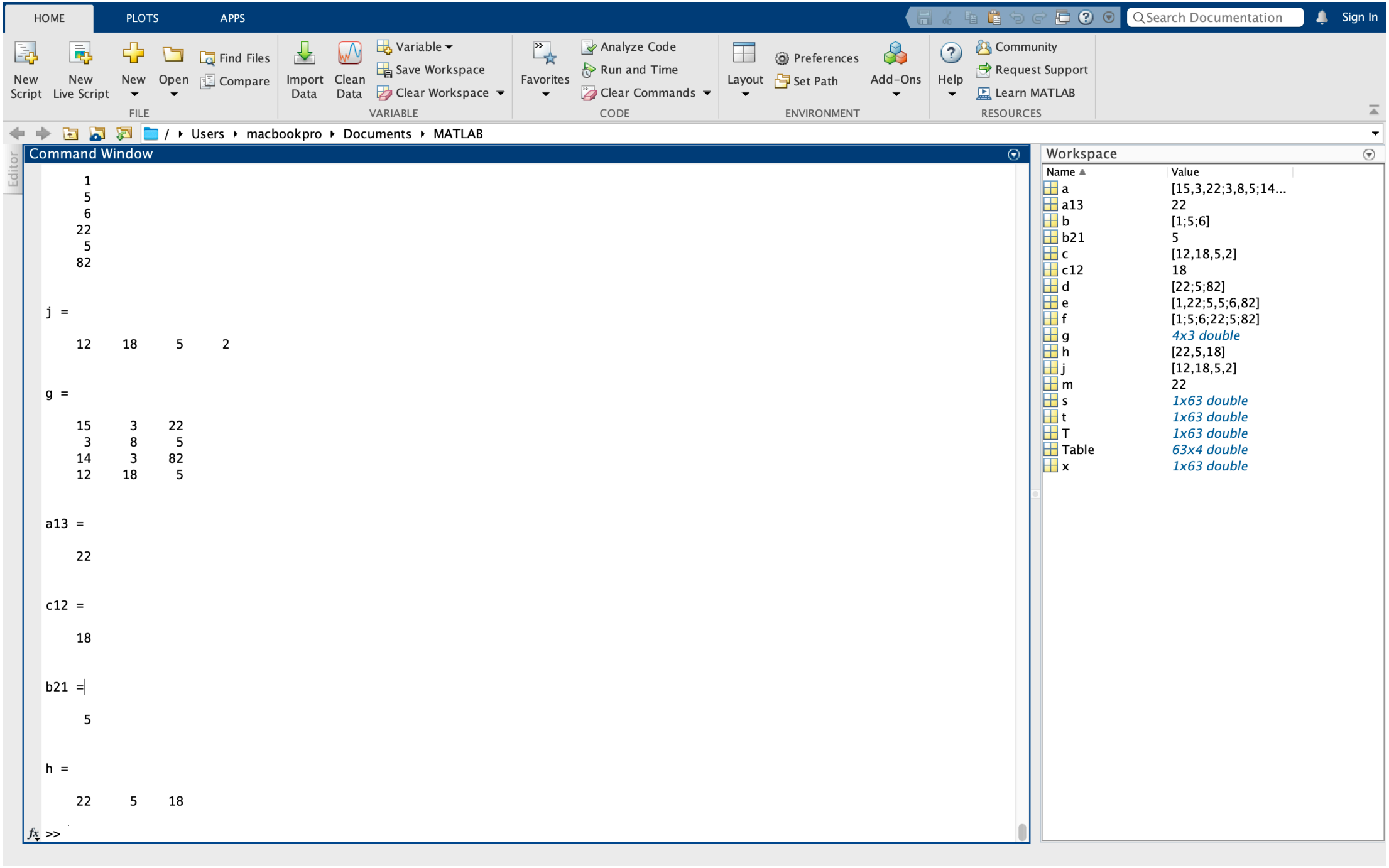
x 1x63 double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1
5
6
22
5
82
j =
12 18 5 2
g =
15 3 22
3 8 5
14 3 82
12 18 5
a13 =
22
c12 =
18
b21 =
5
h =
22 5 18
>>
Workspace
Name
Value
a [15,3,22;3,8,5;14...
a13 22
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