26a:

- A. Max = max(vector) assigns the highest value in the array *vector* to the new variable *Max*.
- B. [Max Loc] = max(vector) returns the index (or location) of the maximum value in array *vector*.
- C. Max = max(matrix) assigns the highest value in each column of 2D array *matrix* to the variable *Max*.
- D. [Max Loc] = max(matrix) returns the indexes (or locations) of the maximum values in 2D array *matrix*.
- E. Max = max(matrix) assigns the highest value in each row of 2D array *matrix* to the variable *Max*.
- F. Max = max(max(matrix)) assigns the highest value of the highest values of each row in the 2D array *matrix* to the variable *Max*.
- G. Total = sum(vector) adds together all the elements in array *vector* and assigns the result to variable *Total*.
- H. Total = sum(vector(4:10)) adds together elements 4 through 10 in array *vector* and assigns the result to variable *Total*.
- I. Total = sum(matrix) adds together all the elements in each column of the 2D array *matrix* and assigns the result to variable *Total*.
- J. Total = sum(matrix,2) adds together all the elements in each row of the 2D array *matrix* and assigns the result to variable *Total*.
- K. Total = sum(sum(matrix)) adds together all the elements in each column and then adds together all of those values of the 2D array *matrix* and assigns the result to variable *Total*.
- L. Total = sum(matrix(3:6,4)) adds together elements 3 through 6 in the 4th column of the 2D array *matrix* and assigns the result to variable *Total*.

27:

A.

-1	1	18	
10	-2	6	
17	12	10	

В.

-3	-3 5 -	
0	10	0
-9	-2	-6

C.

6	14	12
-3	-7	-6

D.

1 4 0

E.

-12	6	-10
30	-1	15

## Problem 21

Number Estimate		Actual Cube Root	Program Output	Number of Iterations
29.85 1		3.10204512985	3.102	8
<b>216</b> 1		6	6.000	12
2000000	1	125.992104989	125.992	27
2000000	20	125.992104989	125.992	12

## Problem 22

## **Test Ln Program Output**

x	Number of Terms	Actual Value for In(x)	Estimate for In(x)	
1.5	1	0.40546511	0.50000000	
1.5	3	0.40546511	0.41666667	
1.5	6	0.40546511	0.40468750	
1.5	7	0.40546511	0.40580357	
1.5	10	0.40546511	0.40543465	
1.5	20	0.40546511	0.40546509	