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Write a script file that computes the volume of a box with height of (H), and length of (L), and width of (W). These dimensions are entered by the user.

Code

```
S = input ('h')
N = input ('L')
g = input ('w')

volume = h*L*w
```

```
S = input ('h')
n = input ('L')
g = input ('w')

Volumes s*n*g
```
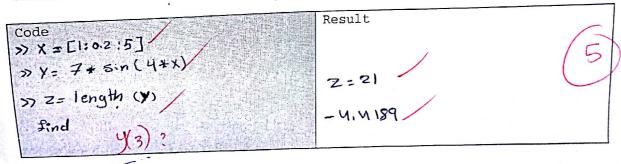
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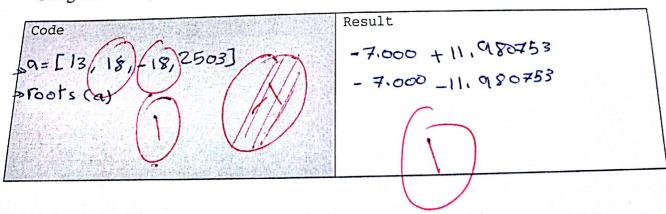Name: نيروز خالد محمد عبدالرحيم   Reg. No. 0143604

Question 1

Suppose x takes on the values $x = 1, 1.2, 1.4, \ldots, 5$. Use MATLAB to compute the array y that results from the function $y = 7 \sin(4x)$. Use MATLAB to determine how many elements are in the array y and the value of the third element in the array y.

Code	Result
>> X = [1:0.2:5] >> Y = 7 * sin (4*x) >> z= length (Y) find Y(3) ?	z = 21 -4.4189 5

Question 2

Using MATLAB, find the roots of $13x^3 + 182x^2 - 184x + 2503 = 0$

Code	Result
>> a= [13, 18, -18, 2503] >> roots (a)	-7.000 + 11.980753 -7.000 - 11.980753

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Use MATLAB to compute:

$$\int_{0}^{\pi} \sin(x+2)\,dx$$

Code	Result
Function m = sinn (X) m = sin (X+2) → quad('sinn', 0, pi) ans = −0.8323	ม่ √12 ans = −0.8232