Evaluation

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Code:

Answer 1

```
%% Question 1

clc;
clear all;
close all;

syms h;
A = 2*h*100 + 0.5* pi *100 * 100;
fplot(A, [0,500]);

[r,h] = meshgrid(0:1:300,100:100:400);
A = 2.*h.*r + 0.5* pi .*r.* r;
mesh(h,r,A);

[r,h] = meshgrid(0:1:300,0:1:500);
A = 2.*h.*r + 0.5* pi .*r.* r;
mesh(h,r,A);
```

Answer 2

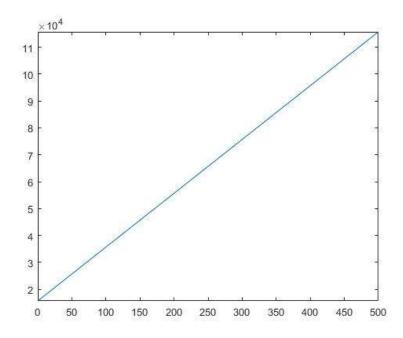
```
5
6
7
8 —
      %% Question 2
9 -
      clear all;
      close all;
2 -
     img = [100 200 500; 390 500 678; 200 900 567];
     imgNo = 0;
5 —
     maxVal = 0;
6
7 - For i = 1:3
в —
9 —
    for j= 1:3
            if img(i,j)> maxVal
0 -
1 -
                  imgNo = i;
maxVal = img(i,j);
2 - 1
3 -
4 -
              end
     end end
6 -
      fprintf('The pixel with the maximum intensity of %d is found in Image #%d !\n', maxVal, imgNo);
в —
     temp_img = img + 100;
fprintf('The images with 100 added to each pixel value will have following values:-\n');
9 -
     disp(temp_img);
```

Output:

Answer 1

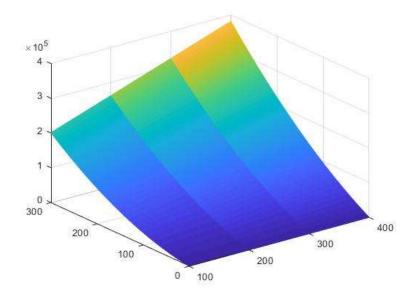
Part 1

The plot is h vs A for r = 100.



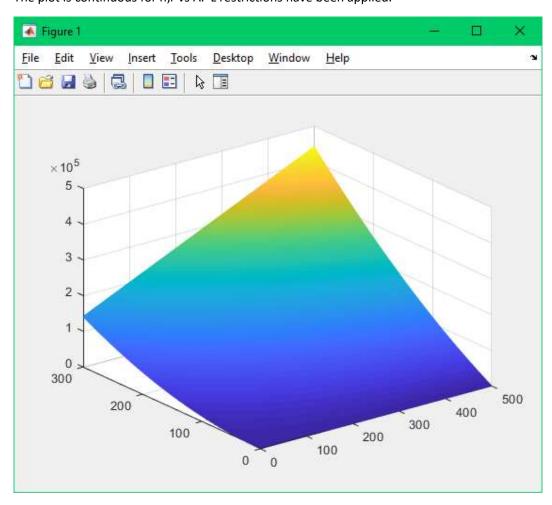
Part 2

The plot is discrete as seen by the shades for h,r vs A. L restrictions have been applied.



Part 3

The plot is continuous for h,r vs A. L restrictions have been applied.



Answer 2

```
The pixel with the maximum intensity of 900 is found in Image #3 !

The images with 100 added to each pixel value will have following values:-

200 300 | 600

490 600 778

300 1000 667

>>

$\mathcal{f}_{\mathcal{x}} >> \text{
```