
[ARTEM DUDKO] - [LAB #3] - [2/5/2020]

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[PROBLEM #5]

```
format bank, format compact, clear, clc, close all
```

```
V = [4000:-500:1000]';  
r = (0.75*V/pi).^(1/3);  
r = round(r,1)  
s = r.^2 * 4 * pi;  
s = round(s,1)  
finalTable = table(r,s,V)
```

V =

```
4000.00  
3500.00  
3000.00  
2500.00  
2000.00  
1500.00  
1000.00
```

r =

```
9.80  
9.40  
8.90  
8.40  
7.80  
7.10  
6.20
```

s =

```
1206.90  
1110.40  
995.40  
886.70  
764.50  
633.50  
483.10
```

finalTable =

7×3 table

r	s	V
9.80	1206.90	4000.00
9.40	1110.40	3500.00
8.90	995.40	3000.00

8.40	886.70	2500.00
7.80	764.50	2000.00
7.10	633.50	1500.00
6.20	483.10	1000.00

[PROBLEM #10]

```
format compact, clear, clc, close all

uOne = [3.2 -6.8 9];
uTwo = [-4 2 7];
angle = acosd(((sum(uOne .* uTwo)) / ( sqrt(sum(uOne .* uOne)) *
    sqrt(sum(uTwo .* uTwo)))))

angle =
    67.93
```

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