
```
% Taha Akhlaq MATLAB Assignment 1
```

```
clc; % clear command window
```

```
% Question 1
```

```
u = [17, 30, 8] %1
```

```
v = [9; 15; 12] %2
```

```
A = [-3; -2; -1; 1; 2] .* u %3
```

```
B = [A', v] %4
```

```
% Question 2
```

```
c = exp( (j * pi) / 3) %1
```

```
d = sqrt(j) %2
```

```
m = (20000) ^ (1 / 4.3) %3
```

```
n = floor(2 ^ 7.5) + ceil( 25 * log (250) ) %4
```

```
% Question 3
```

```
a = [8, 1, 12  
     -7, -2, -11  
     1, -4, 0];
```

```
b = [109; -84; 56];
```

```
x = a \ b
```

```
% Output:
```

```
u =
```

```
    17    30     8
```

```
v =
```

```
     9  
    15  
    12
```

$A =$

-51	-90	-24
-34	-60	-16
-17	-30	-8
17	30	8
34	60	16

$B =$

-51	-34	-17	17	34	9
-90	-60	-30	30	60	15
-24	-16	-8	8	16	12

$C =$

$0.5000 + 0.8660i$

$d =$

$0.7071 + 0.7071i$

$m =$

10.0055

$n =$

320

$x =$

12.0000
-11.0000
2.0000

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