
```

% Zidane Karim 1-27-2026 ECE210-A

% question 1
% left no semi-colons so they display
u = [17, 30, 8] % im like hey whats up hello

v = [9; 15; 12;]

A = [-3*u; -2*u; -u; u; 2*u;]

B = [transpose(A), v]

% q2

c = exp(j*(pi/3))
d = sqrt(j)
m = 20000 ^ (1/4.3)
n = [2^7.5] + [25*log(250)] % assuming natural log?

%q3

lowercase_b = [109; -84; 56;];
A = [8, 1, 12; -7, -2, -11; 1, -4, 0];
x = lowercase_b \ A

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

$n =$

319.0559

$x =$

$0.0687 \quad 0.0024 \quad 0.1011$

Published with MATLAB® R2025b