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% 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 =

$$0.0687 \quad 0.0024 \quad 0.1011$$

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