

PROBLEM:

Solve the following simultaneous equations for z_1 , z_2 and z_3 :

$$z_1 - j2z_2 = 2e^{j\pi/2}$$

$$4z_2 - jz_3 = 4e^{j\pi/3}$$

$$2z_1 - z_3 = 4e^{j7\pi/6}$$

Use MATLAB to do the numerical work, but explain how you set up the problem. Use `help mldivide` and `help inv` to find operators that solve simultaneous equations.