
ECE500 Matlab Homework 3

M2.1, M2.2, M2.3, M2.4 Written by: Mark Keranen 09/27/2017

M2.1 Script M-Files

```
% Set component values:
R = [1e4, 1e4, 1e4];
C = [1e-9, 1e-6];

% Determine coefficients for characteristic equation:
a0 = 1;
a1 = (1/R (1) + 1/R (2) + 1/R (3)) / (C (2));
a2 = 1/(R(1) *R (2) *C(1) *C(2));
A = [a0 a1 a2];

% Determine characteristic roots:
lambda = roots (A);

% >>lambda =
%
%      1.0e+03 *
%
%      -0.1500 + 3.1587i
%      -0.1500 - 3.1587i
```

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