

PROBLEM:

Factor the following polynomial and plot its roots in the complex plane.

$$P(z) = 1 + \frac{1}{2}z^{-1} + \frac{1}{2}z^{-2} + z^{-3}$$

In MATLAB see the functions called `roots` and `zplane`.

McClellan, Schafer and Yoder, *Signal Processing First*, ISBN 0-13-065562-7.

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