

Write a MATLAB function uses the following fixed point algorithm:

$$p_n = \sqrt{\frac{2 - p_{n-1}^4}{3}}, \quad p_0 = 1$$

to solve $x^4 + 3x^2 - 2 = 0$

Your program must

- 1.- Find p_1, \dots, p_{10} .
- 2.- Use p_1, \dots, p_{10} to find $\hat{p}_1, \dots, \hat{p}_8$ Using Aitken's method
- 3.- Plot both solutions in the same graph.

Name your m file using the following format.

`WS3_LastName_FirstInitial()`

Upload your MATLAB code file to the corresponding Dropbox folder on by Saturday 9/11 before 11:59pm.