MATH 54 SPRING 2019: DISCUSSION 109/112 QUIZ#4

GSI: CHRISTOPHER EUR, DATE: 3/5/2019

STUDENT NAME: _____

Problem 1. Compute the characteristic polynomial of the following matrix (you do not need to factor it).

ſ	0	3	1]
	3	0	2
	1	2	0

Problem 2. Let A be a square matrix. Show that if A^2 is the zero matrix, then the only eigenvalue of A is 0.