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

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

STUDENT NAME:

Problem 1. factor it).	Compute th	ne characteristic	polyno	mial	of the	following	matrix	(you do	o not	need	to
ractor it).			$\begin{bmatrix} 0 \\ 3 \\ 1 \end{bmatrix}$	3 0 2	$\begin{bmatrix} 1 \\ 2 \\ 0 \end{bmatrix}$						

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.