

Homework 23 MATH 304 Section 3

Assigned: Friday, November 21.

Potentially Collected: Monday, December 1.

1. Find the characteristic polynomials for each of the following matrices.

(a) $\begin{bmatrix} 2 & 1 \\ -1 & 3 \end{bmatrix}$

(b) $\begin{bmatrix} 4 & 2 \\ 3 & 3 \end{bmatrix}$

(c) $\begin{bmatrix} 1 & 2 & 1 \\ 0 & 1 & 2 \\ -1 & 3 & 2 \end{bmatrix}$

(d) $\begin{bmatrix} 4 & -1 & 3 \\ 0 & 2 & 1 \\ 0 & 0 & 3 \end{bmatrix}$