Name:	ID #:

As always you need to show your work. Fill in the appropriate blanks

- 1. The characteristic equation of a matrix A is = 0
- 2. Eigenvalues are roots of = 0
- **3.** The char eqn of $A = \begin{pmatrix} 3 & 2 \\ 2 & 0 \end{pmatrix}$ is with evals
- **4.** The char eqn of $A = \begin{pmatrix} 3 & 2 \\ 2 & 3 \end{pmatrix}$ is with evals
- 5. The char eqn of $A = \begin{pmatrix} 6 & 0 & 0 \\ 0 & 3 & 2 \\ 0 & -2 & 3 \end{pmatrix}$ is with evals
- **6.** The char eqn of $A = \begin{pmatrix} 6 & 0 & 0 \\ 0 & 3 & 2 \\ 1 & 1 & 0 \end{pmatrix}$ is = 0 | with evals

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