

Name: _____

ID #: _____

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

1. The char eqn of A is $\begin{pmatrix} 6 & 2 & 0 \\ 0 & 1 & 2 \\ 0 & -2 & 1 \end{pmatrix}$ is $= 0$ with evals

2. The char eqn of A is $\begin{pmatrix} 6 & 2 \\ -3 & 1 \end{pmatrix}$ is $= 0$ with evals

3. Matrices A and B have the same eigenvalues if they are similar.

Matrices A and B are similar if

for some