Nama: Michoen Geranden Wording WIM: 2602238021	ALIN
1. First the characteristic equation ersenspaces of the mostrix?  A. (10)  B. (1-2)  (01)	un, the eigenvalues, and bases for the
2. Find the Characteristic. can the eigenstaces of the $A \cdot \begin{pmatrix} 4 & 0 & 1 \\ -2 & 1 & 0 \end{pmatrix} = \begin{pmatrix} 6 & 6 \\ 0 & 1 \end{pmatrix}$	vation, the eigenvalues, and bases for montrix?  3 -8  -2 0  0 -3
1. A. Characteristic eavation $det(NI - A) = 0$ $T - A = N\begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix} - \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} - \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} - \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix} - \begin{pmatrix} 1 & $	
Significance Basiz of $\{(0), (0)\}$	

B. 
$$\binom{1}{0}$$
  $\binom{1}{1}$   $\binom$ 

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2. A. 
$$\begin{pmatrix} a & 0 & 1 \\ -2 & 1 & 0 \\ 1 & -1 & 0 \end{pmatrix}$$

$$\begin{pmatrix} n_1 - A \end{pmatrix} = \begin{pmatrix} n_1 - A & 0 & -1 \\ 2 & n_{-1} & 0 \\ 2 & 0 & n_{-1} \end{pmatrix}$$

$$det(n_1 - A) = 0$$

$$\begin{pmatrix} n_1 - A \end{pmatrix} = \begin{pmatrix} n_1 - A & 0 & -1 \\ 2 & 0 & n_{-1} \end{pmatrix}$$

$$\begin{pmatrix} n_1 - A \end{pmatrix} = \begin{pmatrix} n_1 - A \end{pmatrix} = 0$$

$$\begin{pmatrix} n_1 - A \end{pmatrix} = \begin{pmatrix} n_1 - A \end{pmatrix} + \begin{pmatrix} n_1 - A \end{pmatrix}$$

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. 
$$N: 2$$

$$\begin{pmatrix}
-2 & 0 & -1 \\
2 & 1 & 0 \\
2 & 0 & 1
\end{pmatrix}
\begin{pmatrix}
x_1 \\
x_2
\end{pmatrix}
= 0$$

$$2x_1 + x_2 = 0$$

$$2x_1 + x_3 = 0$$

$$x_1 + x_3 = 0$$

$$x_2 = -1$$

$$-2x_1 - x_2 = 0$$

$$x_2 = -2x_1$$

$$-2$$

$$x_2 = -2x_1$$

$$-2$$

$$x_3 = 0$$

$$x_1 = 0$$

$$x_2 = -2x_1$$

$$x_3 = 0$$

$$x_4 = -2x_1$$

$$x_5 = -2x_1$$

$$x_6 = -1$$

$$x_7 = -2x_1$$

$$x_8 = -1$$

$$x_8 = -1$$

$$x_1 = -2x_1$$

$$x_1 = -2x_1$$

$$x_2 = -2x_1$$

$$x_3 = -2x_1$$

$$x_4 = -2x_1$$

$$x_5 = -2x_1$$

$$x_6 = -1$$

$$x_7 = -2x_1$$

$$x_7 = -2x_1$$

$$x_8 = -2x_1$$

$$x_1 = -2x_1$$

$$x_1 = -2x_1$$

$$x_2 = -2x_1$$

$$x_3 = -2x_1$$

$$x_4 = -2x_1$$

$$x_5 = -2x_1$$

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$$x_7 = -2x_1$$

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$$x_2 = -2x_1$$

$$x_3 = -2x_1$$

$$x_4 = -2x_1$$

$$x_5 = -2x_1$$

$$x_7 = -2x_1$$

$$x_8 = -2x_1$$

$$x_1 = -2x_1$$

B. 
$$\begin{pmatrix} 6 & 3 & -8 \\ 0 & -2 & 0 \\ 1 & 0 & -3 \end{pmatrix}$$
 $\begin{pmatrix} NI - B \end{pmatrix} : \begin{pmatrix} N-6 & -3 & 8 \\ 0 & N+2 & 0 \\ -1 & 0 & N+3 \end{pmatrix}$ 
 $\begin{pmatrix} A-6 \end{pmatrix} \begin{pmatrix} M+2 \end{pmatrix} \begin{pmatrix} N+2 \end{pmatrix} \begin{pmatrix} N+3 \end{pmatrix} + \begin{pmatrix} A-6 \end{pmatrix} \begin{pmatrix} A+2 \end{pmatrix} \begin{pmatrix} A+2$ 

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