TY			2.5
me:	Date:	11	

2.
$$\begin{pmatrix} 2 & 2 & 1 \\ 1 & 3 & 1 \\ 2 & 2 & 2 \end{pmatrix}$$
 $= \begin{pmatrix} 2 & -\lambda + \lambda^2 - 10 = 0 \\ 1 & 3 & 1 \\ 2 & 2 & 2 \end{pmatrix}$

DODE PROXPERCE

$$\begin{vmatrix} 2-\lambda & 2 \end{vmatrix} = (2-\lambda)(3-\lambda)(2-\lambda)-2$$

$$\frac{2}{3} = \frac{1}{3} = \frac{1}{6}$$

$$\begin{vmatrix}
2-\lambda & 2 & 1 \\
1 & 3-\lambda & 1
\end{vmatrix} = (2-\lambda)(3-\lambda)2-\lambda)-2$$

$$\begin{vmatrix}
-2((2-\lambda)-1)+1(2-3+\lambda)=0 \\
-2((2-\lambda)-1)+1(2-3+\lambda)=0
\end{vmatrix}$$

5.
$$v_1 = [-1,1]^T(1=-1)$$
 $v_2(t) = [1,1]^T(1=3)$
 $c_1 + c_2 = 3 + 2$

$$6 \begin{vmatrix} 1 - \lambda & 0 & 0 \\ 4 & (-\lambda) & 6 \end{vmatrix} = 0 = (1-\lambda)\{((-\lambda)(-3-\lambda) + 24) = 0$$

$$= (1-\lambda)(-18-6\lambda+3)+\lambda^2+24 = 0$$

$$= (1-\lambda)(-18-6\lambda+3)+\lambda^2+24 = 0$$

$$= (1-\lambda)(-18-6\lambda+3)+\lambda^2+24 = 0$$

$$7 \cdot \begin{pmatrix} -3 - \lambda & 2 \\ 5 & 4 - \lambda \end{pmatrix} \Rightarrow \begin{pmatrix} -3 - \lambda \end{pmatrix} (4 - \lambda) - 10 = 0$$

$$8 - \lambda^{3} - 2\lambda^{2} - 5\lambda + 6 = 0$$

$$=) \lambda^{2} (\lambda - 2) - 5\lambda + 6 = 0$$

=)
$$\lambda = 1, 3, -2$$

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THANKER OF THE

F. F. J. W. O. 1 1 0 N

(8 = 1) 1 (1 1 / (1) = (1 - 6 / 1) 1 - 4 =