$\begin{bmatrix} -1 \\ 2 \end{bmatrix} - (1 - 1)$ 3) noue 4) [27 - 4] B, [7] ->> [-17] ---> 76 (3-1)(3-1)(2-1)-10=12-51-14 $\lambda = 7, \lambda = -\lambda$ 3/4  $\lambda = 7$  Span  $\frac{5}{2}$   $\frac{7}{2}$   $\frac{7}{3}$   $\lambda = -2$  Span  $\frac{5}{2}$   $\frac{7}{2}$   $\frac{7}{2}$   $\frac{7}{2}$ 

).1) eignals \= 9 1=6 X=c wolf 1 egpc. gan [3] san [3] span [3].

Lines 1 = 4 = 5 - 2 espe. gar? Any 3) effals 4 Spar to gan) 0

d(f(t)+q(t)) = If(t) + dq(t)

It It F. 1)  $\frac{dG(t)}{dt} = c\frac{dG(t)}{dt}$ 2) all de P A) M/O: 5(2:+)=At2 25H= 20. F.1) A(X+Y)=AX+AY  $A(\lambda) = AX$ 

3) 
$$Span \left\{ \begin{bmatrix} 2 & 6 \\ -4 & 0 \end{bmatrix}, \begin{bmatrix} 6 & 27 \\ 0 & 4 \end{bmatrix} \right\}$$
 $A = \begin{bmatrix} 1 & 6 & 0 \\ 0 & 10 \\ 0 & 10 \end{bmatrix}$ 
 $A = \begin{bmatrix} 3 \\ 4 \\ 1 \end{bmatrix}$ 
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2) Po 3). Inverses to each other. A) Per-8 = Pe-1 Po. II): See fast week