[1 to to] | = [pas] (t) = B. + B. + B. + 2  $\begin{bmatrix} 1 & t & t \end{bmatrix} \begin{bmatrix} \beta \\ \beta \\ \beta \end{bmatrix}$   $(2,2) \quad (3,3)$ a, +a; t + a, · t a 19:t  $[1 t, t^{2}] \beta = [\beta(t)] \beta + \beta(1) + \beta(1) = 2 [27]$   $[1 t, t^{2}] \beta = [\beta(t)] \beta + \beta(2) + \beta(4) = 2 \pi [3]$  $\begin{bmatrix} 1 & t & t^{2} \\ 1 & t & t^{2} \\ 1 & t & t^{2} \end{bmatrix} \beta = \begin{bmatrix} \rho(t_{0}) \\ \rho(t_{0}) \end{bmatrix} \beta_{0} + \beta_{1}(3) + \beta_{2}(9) = 3$   $\begin{bmatrix} 1 & t & t^{2} \\ 1 & t & t^{2} \\ 1 & 2 & 4 & 2 \\ 1 & 3 & 9 & 3 \end{bmatrix} \begin{bmatrix} 1 & 1 & 2 \\ 0 & 1 & 3 & 0 \\ 0 & 2 & 8 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 & 2 \\ 0 & 1 & 3 & 0 \\ 0 & 0 & 2 & 1 \end{bmatrix}$ B=3 B=-3/2, B=1/2 p(t)=3-3/t+/21

RPHPIP BBBB  $\begin{bmatrix} 1 & t & t \\ 1 & t & t \\ 1 & t & t \end{bmatrix} \beta = \begin{bmatrix} \beta(t_0) \\ \beta(t_1) \\ 1 & t \end{bmatrix}$ If  $A = \begin{bmatrix} t & t & 2 \\ t & b & 2 \\ t & t & 2 \end{bmatrix}$  and  $x = \beta$  and  $b = \begin{bmatrix} \rho(t) \\ \rho(t) \end{bmatrix}$ Is Ax=6 true for any b & 183 [ to to 7 p(t) ] [ to to 2 p(t) ] to to 1 lelum [ to to 2 p(t) ] [ to to to 2 p(t) - p(t) ] to 1 lelum [ to to to 2 p(t) ] [ to to 2 to 2 p(t) - p(t) ] [ to 1 lelum [ to to 2 p(t) ] [ to 2 p(t) - p(t) ] [ to 2 lelum [ to 2 to 2 p(t) ] [ to 2 lelum ] [ t  $\frac{1}{2} \int_{0}^{1} \frac{t_{o}}{t_{i}} + \frac{t_{o}^{2}}{t_{i}} \frac{\rho(t_{o})}{\rho(t_{i}) - \rho(t_{o})} - \frac{t_{i} - t_{o}}{t_{i} - t_{o}} \left(\rho(t_{o}) - \rho(t_{o})\right) - \frac{t_{i} - t_{o}}{t_{i} - t_{o}} \left(\rho(t_{o}) - \rho(t_{o})\right) = \frac{t_{o} - t_{o}}{t_{o}} \left(\rho(t_{o}) 2^{2}-x^{2}-\left(\frac{7-x}{y-x}\right)\left(y^{2}-x^{2}\right)=0$  $\left(\begin{array}{c}
\rho(t_{z})-\rho(t_{z})-\rho(t_{z})-\rho(t_{z})\rho$ 

A= $\begin{bmatrix}1 & t_0\\1 & t_1\end{bmatrix}$  x= $\beta$  b= $\begin{bmatrix}p(t_0)\\p(t_0)\end{bmatrix}$ Does A=b Nave a solution for every  $b \neq \beta$ ?

L[ to  $p(t_0)$ ]  $v = \begin{bmatrix}1 & t_0\\0 & t_1 - t_0\end{bmatrix}$ The consistent when  $v = \begin{bmatrix}1 & t_0\\0 & t_1 - t_0\end{bmatrix}$   $v = \begin{bmatrix}1 & t_0\\0 & t_1 - t_0\end{bmatrix}$   $v = \begin{bmatrix}1 & t_0\\0 & t_1 - t_0\end{bmatrix}$ A= $\begin{bmatrix}1 & t_0\\0 & t_1 - t_0\end{bmatrix}$ The consistent when  $v = \begin{bmatrix}1 & t_0\\0 & t_1 - t_0\end{bmatrix}$  v

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$$\rho(t_{1})-\rho(t_{3}) = \frac{t_{1}-t_{3}}{t_{1}-t_{3}} (\rho(t_{1})-\rho(t_{3}))$$

$$\frac{d}{dt} = \frac{1}{t_{1}-t_{3}} (\rho(t_{1})-\rho(t_{3})$$

$$\frac{d}{dt} = \frac{1}{t_{$$

Overdetermined:

$$\begin{bmatrix} 1 & t \\ 1 & t \\ 1 & t_2 \end{bmatrix} \beta = \begin{bmatrix} \rho(t) \\ \rho(t) \\ \rho(t) \end{bmatrix}$$

$$\begin{bmatrix}
t, & \rho(t_0) & \gamma & \xi, & \rho(t_0) \\
t, & \rho(t_0) & \gamma & \delta, & \xi, & \rho(t_0) - \rho(t_0) \\
t, & \rho(t_0) & \delta, & \xi, & \rho(t_0) - \rho(t_0)
\end{bmatrix}$$

$$\begin{bmatrix}
1 & t, & \rho(t_0) \\
0 & t, & t_0, & \rho(t_0) \\
0 & 0 & (t, & t_0, & \rho(t_0) - \rho(t_0))
\end{bmatrix}$$
(1), 2)
$$\begin{bmatrix}
1 & t, & \rho(t_0) \\
0 & t, & t_0, & \rho(t_0) \\
0 & 0 & (t, & t_0, & \rho(t_0) - \rho(t_0))
\end{bmatrix}$$
(5), 2)

(onsistent when p(t) =p(t)) or alten to = E

Under: