3 agona
$$N = V_2 TP(\theta apacinem 1)$$
 $P_2 = \frac{1}{2}p(\theta) \in R[t] : degP(t) \leq 2f = \frac{1}{2}$
 $= \frac{1}{2}p(\theta) = at^2 + bt + c, \quad a,b,c \in R^3$.

 $Ap(t) = \frac{1}{4}[(t+1) \cdot p(t)] = (t+1) \cdot p'(t) + t + (t+1) \cdot p(t) = (t+1) \cdot p'(t) + 1 \cdot p(t)$.

 $P(t) = (t+1) \cdot p'(t) + 1 \cdot p(t)$.

 $P(t) = P_2 = P(t) + P_2(t) + P_2(t) + P_2(t)$
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$$= d \cdot (t+1) \cdot p'(t) + d \cdot p(t) = d \cdot (t+1) \cdot p'(t) \cdot p(t) = 0$$

$$= d \cdot Ap(t), \forall d \in \mathbb{R}.$$
0) \(\text{\$\frac{1}{2}} = \) \(A - \text{Imperior man on one paramon } \text{\$\frac{1}{2}} \) \(At^2 = (t+1) \cdot (t^2)' + t^2 = 2t^2 + 2t + t^2 = 3t^2 + 2t = 0 \)
$$= e \left(\frac{3}{2} \right) = e A^{\frac{1}{2}} \)
$$A t^2 = (t+1) \cdot (t^2)' + t^2 = 2t^2 + 2t + t^2 = 3t^2 + 2t = 0 \)
$$A t^2 = (t+1) \cdot (t^2)' + t^2 = 2t^2 + 2t + t^2 = 3t^2 + 2t = 0 \)
$$A t^2 = (t+1) \cdot (t^2)' + t^2 = 1 = e \left(\frac{9}{4} \right) = e A^2$$

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Theorem 1:

$$A_{2} = A^{-1} = \begin{pmatrix} 3 & 0 & 0 \\ 2 & 2 & 0 \\ 0 & 1 & 1 \end{pmatrix} \cdot \begin{pmatrix} 1/3 & 0 & 0 \\ -1/3 & 1/2 & 0 \\ 1/3 & -1/2 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

$$Im A = P_2$$

$$V + A = 3.$$