$$A^{\alpha}B_{\alpha} = \frac{3}{5}A^{\alpha}B_{\alpha} = 0 + 0 - 4 + 0$$

$$= -4$$

b)
$$\beta = 0$$
: $5 + b + (-4) + 6 = 7$
 $\beta = 1$: 1

2)
$$F = fiee d = dumy noe: number of equal a)$$

5.

a) for any numbers
$$\alpha_{\theta}$$
, the linear comb = 0 only $\alpha_{\theta} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$.

d₀ €₀ + a₁ €₁ + a₂ €₂ + a₂ €₃

7.
$$\alpha \text{ | equ 2.10} : (\vec{e}_{\alpha})^{\theta} = S_{\alpha}^{\theta}$$

write $(\vec{e}_{\alpha})^{\theta}$ as making $\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$

10.
$$A^{\alpha} \left(\Lambda^{\bar{B}}_{\alpha} \vec{e}_{\bar{p}} - \vec{e}_{\alpha} \right) = 0$$

$$2.13 := \bar{e}_{\alpha} = A^{\bar{B}}_{\alpha} \vec{e}_{\bar{p}}$$