$$P = \begin{cases} \begin{cases} v_1 & v_1 & v_2 & w_2 & v_3 & v_4 \end{cases} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{cases}$$

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$$4w_4 + 4w_5 + 4w_6 = 0 \Rightarrow 4w_4 = -1/4$$

$$4w_5 + 4w_6 = 9$$

$$w_5 = \frac{1}{4} - w_6$$

$$A^{3} = PJP^{-1}$$

$$A^{3} = PJ^{3}P^{-1} \cdot 7 \Rightarrow k = J^{3}$$

$$A^{3} = PKIP^{-1}$$