

(1A) Nessuna per $k = 0$ e $k = -\frac{5}{2}$, infinite per $k = -2$, nessuna altrimenti

(1B) $k = 2$

$$(1C) \quad \frac{1}{3} \begin{pmatrix} 5 & -1 & -6 \\ -2 & 1 & 6 \\ 0 & 3 & 9 \end{pmatrix}$$

$$(2A) \quad \begin{pmatrix} -6 \\ 0 \\ 4 \end{pmatrix} + \text{Span} \begin{pmatrix} 13 \\ 1 \\ -7 \end{pmatrix}$$

$$(2B) \quad \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} + \text{Span} \left(\begin{pmatrix} 3 \\ 2 \\ 0 \end{pmatrix}, \begin{pmatrix} 0 \\ 4 \\ 3 \end{pmatrix} \right)$$

(2C) $h = 3$

(2D) $h = 3$ e $h = -62$