

0, 1, [1]

$$1, 5, \begin{bmatrix} 2 & 1 \\ 1 & -2 \end{bmatrix}$$

$$2, 105, \begin{bmatrix} 2 & 1 & 4 \\ 1 & -2 & 0 \\ 8 & 4 & -5 \end{bmatrix}$$

$$3, 425, \begin{bmatrix} 8 & 4 & 2 & 1 \\ 1 & -2 & 0 & 0 \\ 0 & 0 & 1 & -2 \\ 2 & 1 & -8 & -4 \end{bmatrix}$$

$$4, 144925, \begin{bmatrix} 8 & 4 & 2 & 1 & 16 \\ 1 & -2 & 0 & 0 & 0 \\ 0 & 0 & 1 & -2 & 0 \\ 2 & 1 & -8 & -4 & 0 \\ 128 & 64 & 32 & 16 & -85 \end{bmatrix}$$

$$5, 580125, \begin{bmatrix} 8 & 4 & 2 & 1 & 32 & 16 \\ 1 & -2 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & -2 & 0 & 0 \\ 2 & 1 & -8 & -4 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -2 \\ 128 & 64 & 32 & 16 & -34 & -17 \end{bmatrix}$$

$$6, 243697125, \begin{bmatrix} 8 & 4 & 2 & 1 & 32 & 16 & 64 \\ 1 & -2 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & -2 & 0 & 0 & 0 \\ 2 & 1 & -8 & -4 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -2 & 0 \\ 0 & 0 & 0 & 0 & 8 & 4 & -5 \\ 2688 & 1344 & 672 & 336 & -170 & -85 & -340 \end{bmatrix}$$

7, 46420625,

$$\begin{bmatrix} 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ 1 & -2 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & -2 & 0 & 0 & 0 & 0 \\ 2 & 1 & -8 & -4 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -2 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 \\ 0 & 0 & 0 & 0 & 2 & 1 & -8 & -4 \\ 8 & 4 & 2 & 1 & -128 & -64 & -32 & -16 \end{bmatrix}$$

8, 253459513125,

$$\begin{bmatrix} 8 & 4 & 2 & 1 & 32 & 16 & 128 & 64 & 256 \\ 1 & -2 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & -2 & 0 & 0 & 0 & 0 & 0 \\ 2 & 1 & -8 & -4 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -2 & 0 & 0 & 0 \\ 128 & 64 & 32 & 16 & -34 & -17 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 8 & 4 & -5 \\ 512 & 256 & 128 & 64 & 2048 & 1024 & -130 & -65 & -260 \end{bmatrix}$$

(1)