

a1 =

$$\begin{bmatrix} -12 & -32 \\ 1 & 0 \end{bmatrix}$$

b1 =

$$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$$

c1 =

$$\begin{bmatrix} 0 & 10 \end{bmatrix}$$

d1 =

$$0$$

a2 =

$$\begin{bmatrix} -19 & -78 \\ 1 & 0 \end{bmatrix}$$

b2 =

$$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$$

c2 =

$$\begin{bmatrix} 0 & 5 \end{bmatrix}$$

d2 =

$$0$$

a =

$$\begin{bmatrix} -31 & -338 & -1544 & -2496 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$$

0 0 1 0

b =

1
0
0
0

c =

0 0 0 50

d =

0

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