$$\begin{pmatrix}
2 \times 1 + 5 \times 2 + 4 \times 3 = 8 \\
4 \times 1 + 2 \times 2 + 8 \times 3 = 10
\end{pmatrix}$$

$$8 \times 1 - 4 \times 2 + 10 \times 3 = 16$$

$$\begin{pmatrix}
2 & 5 & 4 \\
4 & 2 & 8 \\
8 & -4 & 10
\end{pmatrix}$$

$$\begin{pmatrix}
2 & 5 & 4 \\
8 & -4 & 10
\end{pmatrix}$$

$$\begin{pmatrix}
2 & 5 & 4 \\
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2 & 5 & 4 \\
8 & -4 & 10
\end{pmatrix}$$

$$\begin{pmatrix}
2 & 5 & 4 \\
9 & -8 & 0 \\
0 & 0 & -6
\end{pmatrix}$$

$$\begin{pmatrix}
4 & 3 & 4 \\
0 & 3 & 4
\end{pmatrix}$$

$$\begin{pmatrix}
4 & 0 & 0 & 8 \\
2 & 4 & 0 & 10
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