$$\begin{cases} 7x + 4y - 8z = 3 \\ 5x - 3y - 4z = -12 \end{cases}$$

$$\begin{vmatrix} 3 - 2 & 5 & 7 \\ 7 & 4 - 8 & 3 \\ 5 - 3 & -4 & -12 \end{vmatrix} = -12$$

$$\begin{vmatrix} 3 - 2 & 5 & 7 \\ 7 & 4 & -8 & 3 \\ 5 & -3 & -4 & -12 \end{vmatrix} = -12$$

$$\begin{vmatrix} 1 - 4x & 5x & 7/3 \\ 1 & -4x & 5x & 7/3 \\ 1 & -2x & 7/3 \\ 1 & -2x$$

$$\begin{vmatrix}
7 & 4 & -8 & 3 \\
5 & -3 & -4 & -12
\end{vmatrix}$$

$$\begin{vmatrix}
1 & -\frac{2}{3} & \frac{5}{3} & \frac{7}{3} \\
0 & -26/3 & 59/3 & 40/4 \\
0 & -1/3 & 317/3
\end{vmatrix}$$

$$\begin{vmatrix}
7 & 4 & -8 & 3 \\
5 & -3 & -4 & -12
\end{vmatrix}$$

$$\begin{vmatrix}
1 & -\frac{2}{3} & \frac{5}{3} & \frac{7}{3} \\
0 & -1/3 & \frac{5}{3} & \frac{7}{3}
\end{vmatrix}$$

$$\begin{vmatrix}
1 & -\frac{2}{3} & \frac{5}{3} & \frac{7}{3} \\
0 & -\frac{1}{3} & \frac{37}{3} & \frac{7}{3}
\end{vmatrix}$$

$$\begin{vmatrix}
1 & -\frac{2}{3} & \frac{5}{3} & \frac{7}{3} \\
0 & -\frac{1}{3} & \frac{37}{3} & \frac{7}{3}
\end{vmatrix}$$

$$\begin{vmatrix}
1 & -\frac{2}{3} & \frac{5}{3} & \frac{7}{3} & \frac{7}{3} \\
0 & -\frac{1}{3} & \frac{37}{3} & \frac{7}{3}
\end{vmatrix}$$

$$\begin{vmatrix}
1 & 0 & \frac{248}{78} & \frac{102}{78} \\
0 & \frac{59}{46} & \frac{402}{78}
\end{vmatrix}$$

$$\begin{vmatrix}
1 & 0 & \frac{248}{78} & \frac{102}{78} \\
0 & \frac{59}{46} & \frac{402}{78}
\end{vmatrix}$$