

$$\begin{pmatrix} 20 & 10 & 0 \\ 50 & 30 & 20 \\ 200 & 150 & 100 \end{pmatrix} \begin{pmatrix} 150 \\ 470 \\ 2150 \end{pmatrix}$$

$$\begin{pmatrix} 2 & 1 & 0 \\ 5 & 3 & 2 \\ 20 & 15 & 10 \end{pmatrix} \begin{pmatrix} 15 \\ 47 \\ 215 \end{pmatrix}$$

$$\begin{pmatrix} 2 & 1 & 0 \\ 5 & 3 & 2 \\ 4 & 3 & 2 \end{pmatrix} \begin{pmatrix} 15 \\ 47 \\ 43 \end{pmatrix}$$

$$- \begin{pmatrix} 2 & 1 & 0 \\ 5 & 3 & 2 \\ 1 & 0 & 0 \end{pmatrix} \begin{pmatrix} 15 \\ 47 \\ 4 \end{pmatrix}$$

$$\begin{pmatrix} 2 & 1 & 0 \\ 5 & 3 & 2 \\ 0 & -1 & 0 \end{pmatrix} \begin{pmatrix} 15 \\ 47 \\ -7 \end{pmatrix}$$

$$\begin{pmatrix} 2 & 0 & 0 \\ 5 & 0 & 2 \\ 0 & -1 & 0 \end{pmatrix} \begin{pmatrix} 8 \\ 26 \\ -7 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \end{pmatrix} \begin{pmatrix} 4 \\ 3 \\ 7 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 4 \\ 7 \\ 3 \end{pmatrix}$$

1=A
7=B
3=C

$1 = A$
 $7 = B$
 $3 = C$

$$\begin{array}{ccc|c}
 20 & 10 & 0 & 120 \\
 50 & 30 & 20 & 350 \\
 200 & 150 & 100 & 1600
 \end{array}$$

$$\left(\begin{array}{ccc|c}
 2 & 1 & 0 & 12 \\
 5 & 3 & 2 & 35 \\
 5/4 & 1 & 3/2 & 32
 \end{array} \right)$$

$$\frac{2}{5} \left(\begin{array}{ccc|c}
 2 & 1 & 0 & 12 \\
 0 & 0.2 & 0.8 & 2 \\
 0 & 0.75 & 0.5 & 5
 \end{array} \right)$$

$$\left(\begin{array}{ccc|c}
 2 & 1 & 0 & 12 \\
 0 & 0.2 & 0.8 & 2 \\
 0 & 0 & -0.667 & -0.667
 \end{array} \right)$$

$$\left(\begin{array}{ccc|c}
 2 & 1 & 0 & 12 \\
 0 & 1 & 4 & 10 \\
 0 & 0 & 1 & 1
 \end{array} \right)$$
