$$(1 23) \times \begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix} = 1.4 + 2.5 + 3.6 = 32$$

$$\begin{pmatrix}
5 & 0 & 0 & 0 & 0 \\
0 & 5 & 0 & 0 & 0 \\
0 & 0 & 5 & 0 & 0 \\
0 & 0 & 0 & 5 & 0 \\
0 & 0 & 0 & 0 & 5
\end{pmatrix} = \begin{pmatrix}
1/5 & 0 & 0 & 0 & 0 \\
0 & 1/5 & 0 & 0 & 0 \\
0 & 0 & 1/5 & 0 & 0 \\
0 & 0 & 0 & 1/5 & 0 \\
0 & 0 & 0 & 0 & 1/5
\end{pmatrix}$$

$$[5.2]$$
 $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 0 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ = 1.0.9+2.6.7+3.4.8-3.0.7-1.6.8-2.4.9=60

$$M = \begin{pmatrix} -48 & -6 & 32 \\ -6 & -12 & -6 \\ 12 & 6 & -8 \end{pmatrix} \quad A_{*}^{T} = \begin{pmatrix} -48 & 6 & 12 \\ 6 & -12 & 6 \\ 32 & 6 & -8 \end{pmatrix}$$

$$A^{-1} = \begin{pmatrix} -\frac{4}{5} & \frac{1}{10} & \frac{1}{5} \\ \frac{1}{10} & -\frac{1}{5} & \frac{1}{10} \\ \frac{8}{15} & \frac{1}{10} & -\frac{2}{15} \end{pmatrix}$$

$$\begin{cases}
1 & 5 & 3 & 4 \\
2 & 10 & 6 & 8 \\
\frac{1}{2} & \frac{5}{2} & \frac{3}{2} & 2 \\
3 & 15 & 9 & 12
\end{cases}$$
part = 1

5.5) (1 5 0)
(2 8 7)
(7 1.5 3)

$$(7 1.5 3)$$

1 5 0 1 5
2 8 7 8 = 1.8.3+5.7.7+0 -0-7.1,5-30 = 228,5