$$5 + B + W = 100$$

 $105 + 015B + 3W = 150$
 $-9,5B - 7W = -950$

$$-7W = -950 + 9,58$$

$$\Gamma W = \frac{950}{7} - \frac{9,58}{7}$$

$$105 + 6.5B + \frac{3 \times 950}{7} = 150$$

$$105 - \frac{100}{7} + \frac{6B}{7} = \frac{150}{70} + \frac{25B}{70}$$

$$5 = \frac{1800}{70} + \frac{25B}{70}$$

$$\frac{1806}{70} + \frac{25B}{70} + \frac{950}{7} - \frac{915B}{7} = 700$$
 | 70

$$1800 + 25B + 9500 - 95B = 7000$$
 $11306 - 70B = 7000$

2) c)
$$C \cdot D^{T} = \begin{pmatrix} 7037 \\ 2146 \end{pmatrix} \cdot \begin{pmatrix} 7 \\ 3 \\ 4 \end{pmatrix}$$

$$= \begin{pmatrix} 7.1+0.2+3.3+7.4 \\ 2.7+1.2+4.3+5.4 \end{pmatrix} = \begin{pmatrix} 1+0+9+4 \\ 2+2+12+10 \end{pmatrix}$$

$$= \begin{pmatrix} 74 \\ 36 \end{pmatrix} \cdot \begin{pmatrix} 759 \\ 2745 \end{pmatrix} \cdot \begin{pmatrix} 7267717 \\ 2745 \end{pmatrix} \cdot \begin{pmatrix} 7267717 \\ 274712 \end{pmatrix}$$

$$= \begin{pmatrix} 7.1+0.2+3.3+7.4 \end{pmatrix} \cdot \dots \cdot \begin{pmatrix} 7.4&345.4 \\ 36&34&132 \end{pmatrix}$$

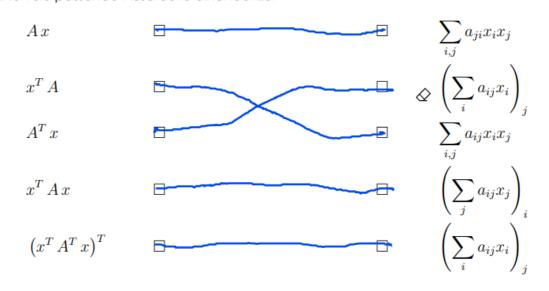
$$= \begin{pmatrix} 759 \\ 36&34&132 \end{pmatrix}$$

$$= \begin{pmatrix} 759 \\ 36&34&132 \end{pmatrix} \cdot \begin{pmatrix} 723 \\ 37717 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 723 \\ 34 \\ 48&12 \end{pmatrix}$$

$$= \begin{pmatrix} 759 \\ 36&34&132 \end{pmatrix} \cdot \begin{pmatrix} 723 \\ 37717 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 723 \\ 34 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 733 \\ 34 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 7459 \\ 36771 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 7459 \\ 36771 \\ 36771 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 7459 \\ 36771 \\ 36771 \\ 48&12 \end{pmatrix} \cdot \begin{pmatrix} 7459 \\ 36771 \\$$

3)
$$V^{T}$$
, $W = (123) \cdot {6 \choose 6} = (7.4+2.5+3.6)$
 $V \cdot W = (\frac{7}{2}) \cdot (456) = (32)$
 $V \cdot W = (\frac{7}{2}) \cdot (456) = (\frac{7.4}{2.5}) = (\frac{40}{7.8})$
 $A \cdot B = (\frac{7.2+2.7}{1.2+2.4}) = (\frac{43}{3})$
 $A \cdot C = (\frac{7.4+2.5+3}{1.2+2.4}) = (\frac{43}{3})$
 $A \cdot C = (\frac{7.4}{1.2}) = (\frac{43}{3})$
 $A \cdot C = (\frac{43}{3}) = (\frac{43}{3}) = (\frac{43}{3})$
 $A \cdot C = (\frac{7.4}{1.2}) = (\frac{43}{3})$
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 $A \cdot C = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2})$
 $A \cdot C = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2})$
 $A \cdot C = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2}) = (\frac{7.4}{1.2}) = ($

Ordnen Sie passende Ausdrücke einander zu:



$$6)_{B} \left\{ \begin{pmatrix} 7 & 0 \\ 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix} \right\}$$

7) 1.
$$R_3$$
 $\times 4 = 3$
 $\times_{2} - \times_{3} = 1 = 7 \times_{3} = \times_{2} - 1$
 $\times_{2} = 1 + \times_{3}$
 $\times_{1} + 2 \times_{3} = -2 = 7 \times_{7} = -2 - 2 \times_{3}$
 $L_{2} = 0$ Dim $L_{2} = 1$

$$5. r = 3 \quad Dim L = 0 \qquad L \left(\frac{-4}{7}\right)$$