$$e_{1} = \begin{pmatrix} 15.1 \\ 7.9 \\ 4.5 \\ 12.8 \\ 10.5 \end{pmatrix} - \begin{pmatrix} 1 & 25.5 & 1.23 \\ 1 & 40.8 & 1.89 \\ 1 & 30.2 & 1.55 \\ 1 & 4.3 & 1.18 \\ 1 & 10.7 & 1.68 \end{pmatrix} \cdot \begin{pmatrix} 23 \\ 0.1 \\ -8 \end{pmatrix} = \begin{pmatrix} 15.1 - 1.23 - 12.5 - 12.3 - 1$$

$$e_{2} = \begin{pmatrix} 15.1 \\ 7.9 \\ 14.5 \\ 10.5 \end{pmatrix} - \begin{pmatrix} 1 & 25.5 & 1.23 \\ 1 & 40.8 & 1.89 \\ 1 & 30.2 & 1.55 \\ 1 & 4.3 & 1.18 \\ 1 & 10.7 & 168 \end{pmatrix} \cdot \begin{pmatrix} 22 \\ -0.2 \\ -7 \end{pmatrix} = \begin{pmatrix} 15.1 - 1.22 - 255 - 02 - 1.23 - 7 \\ 7.9 - 1.22 - 40.8 - 0.2 - 1.89 - 7 \\ 4.5 - 1.22 - 30.2 - 0.2 - 1.55 - 7 \\ 12.8 - 1.22 - 4.3 - 0.2 - 1.18 - 7 \\ 10.5 - 1.22 - 10.7 - 0.2 - 1.68 - 2 \end{pmatrix} = \begin{pmatrix} 6.81 \\ 7.29 \\ -0.61 \\ -0.08 \\ 2.4 \end{pmatrix}$$

2 b₁:
$$\sum_{i=1}^{6} |e_i|^2 |5.1|$$
 $\sum_{i=1}^{6} e_i^2 |0.46|$ b₂: $\sum_{i=1}^{6} |e_i|^2 |10.46|$

3.
$$u \cdot A \cdot v = d \quad d = u \cdot A \cdot v = \sum_{i=1}^{p} \sum_{j=1}^{q} u_i A_{ij} V_{jk}$$

 $(i \times p) \mid (p \times q) \mid (q \times 1) \mid (1 \times 1)$