Practice worksheet | Matrices and networks

Matrix multiplication

Name: _____ Date: _____

6 questions | 12 marks

1. Calculate $\begin{pmatrix}2 & 3\end{pmatrix}\begin{pmatrix}4\\5\end{pmatrix}$. [2 marks]

2. Calculate $\begin{pmatrix}1 & 2\\3 & 4\end{pmatrix}\begin{pmatrix}2\\1\end{pmatrix}$. [2 marks]

3. Calculate $\begin{pmatrix}2 & 0\\1 & 3\end{pmatrix}\begin{pmatrix}1 & 4\\2 & -1\end{pmatrix}$. [2 marks]

4. Does a 2×4 matrix multiply a 3×2 matrix? [2 marks]

5. Find x if $\begin{pmatrix} x & 2 \end{pmatrix}\begin{pmatrix} 3 \\ 4 \end{pmatrix} = 23$. [2 marks]

6. If A is 2×3 and AB is 2×1, what order is B? [2 marks]