Practice worksheet | Matrices and transformations

Identity and zero matrices

Name: _____ Date: _____

6 questions | 12 marks

1. Find $I_2\begin{pmatrix} 4 & -2 \\ 1 & 5 \end{pmatrix}$. [2 marks]

2. State the orders of identities needed on the left and right of a 4×2 matrix. [2 marks]

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

4. If $A + X = A$ for a 2×3 matrix A, find X. [2 marks]

5. Let $P = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix}$. Find P^2 and say whether $P = 0$. [2 marks]

6. Explain why a matrix filled with ones is not I_2. [2 marks]