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| **Literacy**  Matrix, dimension, symmetric, non-commutative, nilpotent | **Research**  Research the Jacobi method for solving linear systems. Show 2 steps of this method for the linear system | **Memory**  For matrices |
| **Skills**   1. For the matrices,, and work out the following where they exist.    1. b. c. d. e. f. 2. What linear transformation does the following matrix represent?      1. A triangle has co-ordinates. Plot these and plot the vertices of the image of under the transformation represented by the matrix . | | **Stretch**  A matrix is called nilpotent if The smallest such that is known as the degree. The following matrices are nilpotent, find their degree. |

**Matrix Operations Homework**