## CHEN. 3170 Applied Engineering Problem Solving A Short Quiz on <br> Matrix Operations and Array Indexing

Given the following matrix, $\mathbf{A}=\left[\begin{array}{ccc}1 & 0 & 1 \\ -1 & 2 & 2 \\ -2 & 0 & 1\end{array}\right]$ what is Matlab's output for the following commands?

1. What is $\mathbf{A} . * \mathbf{A}$ ?
2. What is $\mathbf{A}(:, \mathbf{1}) * \mathbf{A}(\mathbf{3},: \mathbf{)}$ ?
3. What is $\mathbf{A}\left(\mathbf{1},\left[\begin{array}{ll}\mathbf{1} & 3\end{array}\right]\right)$ ?
4. What is [A $\mathbf{A}(:, 2)]$ ?
5. What is $A(1,:)=\left[\begin{array}{lll}1 & -1 & 3\end{array}\right]$ ?
