

~~25103.0003~~  
13.0003

$$A = \begin{pmatrix} 1 & 2 & 0 \\ 3 & -1 & 4 \end{pmatrix}$$

$$A^T = \begin{pmatrix} 1 & 3 \\ 2 & -1 \\ 0 & 4 \end{pmatrix}$$

Done  $A \cdot A^T = \begin{pmatrix} 5 & 1 \\ 1 & 26 \end{pmatrix}$

or  $A^T \cdot A = \begin{pmatrix} 10 & -1 & 12 \\ -1 & 5 & -4 \\ 12 & -4 & 16 \end{pmatrix}$