

Exercise

Let

$$A = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{pmatrix}$$

Compute $A^T A$.

$$A^T A = \begin{pmatrix} \boxed{\text{ANS}} & \boxed{\text{ANS}} & \boxed{\text{ANS}} \\ \boxed{\text{ANS}} & \boxed{\text{ANS}} & \boxed{\text{ANS}} \\ \boxed{\text{ANS}} & \boxed{\text{ANS}} & \boxed{\text{ANS}} \end{pmatrix}$$