Properties of transpose of a matrix:

- For a matrix $A = [a_{ij}]_{m\times n}$, $(A')' = A$
- Let k is a scalar and A is a matrix. Then $(kA)' = kA'$
- $(A_1 \pm A_2 \pm \cdots \pm A_n)' = A_1{}' \pm A_2{}' \pm \cdots \pm A_n{}'$, for comparable matrices A_i
- Let $A = [a_{ij}]_{m\times p}$ & $B = [b_{ij}]_{p\times n}$, then $(AB)' = B'A'$

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