$$\underline{u}^T \underline{v} = (u_1, \ldots, u_n) \begin{pmatrix} v_1 \\ \vdots \\ v_n \end{pmatrix} = u_1 v_1 + u_2 v_2 + \ldots + u_n v_n = \langle \underline{u}, \underline{v} \rangle$$