$$\frac{n}{1}$$

$$(A \otimes B)(C \otimes D) = (AC) \times (BD)$$

$$W = \begin{pmatrix} \omega_n^1 & \dots & \omega_n^{(n-1)} \\ \vdots & \ddots & \vdots \\ \omega_n^{0(n-1)} & \dots & \omega_n^{(n-1)(n-1)} \end{pmatrix}$$

$$I = \begin{pmatrix} 1 & & \\ & \ddots & \\ & & 1 \end{pmatrix}$$

$$D_b^a = \begin{pmatrix} \omega_{ab}^{00} & & & \\ & \omega_{ab}^{01} & & \\ & & \ddots & \\ & & & \omega_{ab}^{(a-1)(b-1)} \end{pmatrix}$$

$$W_{ab} = (W_b \otimes I_a) P_b^a D_b^a (W_a \otimes I_b).$$