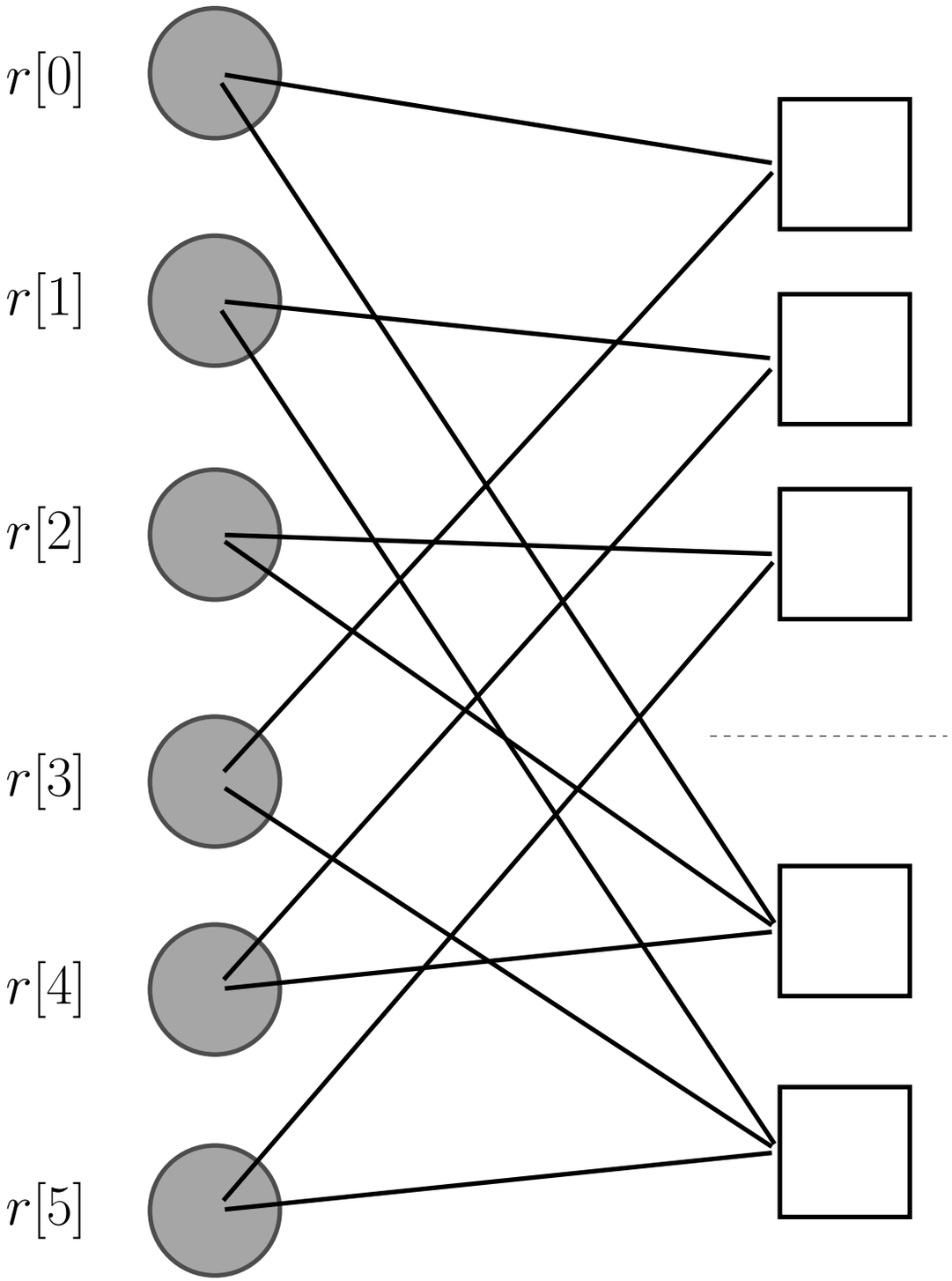
$$w_i^k := \left(e^{j\frac{2\pi s_i}{N}}\right)^k$$



$$\underline{r}^b_{1,1} = \begin{bmatrix} r^s_{1,1}[1] = r[0]w_1^0 + r[3]w_1^3 \\ r^s_{1,2}[1] = r[0]w_2^0 + r[3]w_2^3 \end{bmatrix}$$

$$\underline{r}^b_{1,2} = \begin{bmatrix} r^s_{1,1}[2] = r[1]w_1^1 + r[4]w_1^4 \\ r^s_{1,2}[2] = r[1]w_2^1 + r[4]w_2^4 \end{bmatrix}$$

$$\underline{r}^b_{1,3} = \begin{bmatrix} r^s_{1,1}[3] = r[2]w_1^2 + r[5]w_1^5 \\ r^s_{1,2}[3] = r[2]w_2^2 + r[5]w_2^5 \end{bmatrix}$$

$$\underline{r}^b_{2,1} = \begin{bmatrix} r^s_{2,1}[1] = r[0]w_1^0 + r[2]w_1^2 + r[4]w_1^4 \\ r^s_{2,2}[1] = r[0]w_2^0 + r[2]w_2^2 + r[4]w_2^4 \end{bmatrix}$$

$$\underline{r}^b_{2,2} = \begin{bmatrix} r^s_{2,1}[2] = r[1]w_1^1 + r[3]w_1^3 + r[5]w_1^5 \\ r^s_{2,2}[2] = r[1]w_2^1 + r[3]w_2^3 + r[5]w_2^5 \end{bmatrix}$$