

$$P_{i_ , j_} := \mathbb{E}_{\{i, j\} \rightarrow \{\}} @@ \text{PadRight} \left[\left\{ \text{Sum} \left[\eta[r, s]_j \xi[r, s]_i, \{r, 1, \$n - 1\}, \{s, r + 1, \$n\} \right] + \text{Sum} \left[\beta[r]_j \alpha[r]_i, \{r, 1, \$n - 1\} \right] \right\}, \$k + 1 \right]$$

$$R_{i_ , j_} := \mathbb{E}_{\{\} \rightarrow \{i, j\}} @@ \text{PadRight} \left[\left\{ \text{Sum} \left[y[r, s]_i x[r, s]_j, \{r, 1, \$n - 1\}, \{s, r + 1, \$n\} \right] + \text{Sum} \left[b[r]_i a[r]_j, \{r, 1, \$n - 1\} \right] \right\}, \$k + 1 \right]$$