MATH 54 SUMMER 2017, QUIZ 15

Find the change of basis matrix, $\underset{\mathcal{C}\leftarrow\mathcal{B}}{P}$, from the basis $\mathcal{B}$ to the basis $\mathcal{C}$.

$$\mathcal{B} = \left\{ \begin{bmatrix} 1 \\ 2 \end{bmatrix}, \begin{bmatrix} 3 \\ 4 \end{bmatrix} \right\} \quad \mathcal{C} = \left\{ \begin{bmatrix} 0 \\ 3 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \end{bmatrix} \right\}$$