1 (10 pts). Find the coordinates of the vector $\mathbf{x} = \begin{bmatrix} 17 \\ 35 \\ -6 \end{bmatrix}$ relative to the basis

$$B = \left\{ \begin{bmatrix} 1 \\ 2 \\ -1 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \\ -2 \end{bmatrix} \begin{bmatrix} 3 \\ 6 \\ -1 \end{bmatrix} \right\}$$