Group	Scribe		
Other group	members		

Group Quiz for Section 4.2

Let \mathcal{B} be the orthonormal basis

$$\left(\frac{1}{\sqrt{2}} \begin{bmatrix} 1\\1\\0 \end{bmatrix}, \frac{1}{\sqrt{3}} \begin{bmatrix} 1\\-1\\1 \end{bmatrix}, \frac{1}{\sqrt{6}} \begin{bmatrix} 1\\-1\\-2 \end{bmatrix} \right)$$

of \mathbb{R}^3 . (You don't need to verify that $\mathcal B$ is orthonormal.)

Find the coordinate representation of $\begin{bmatrix} 7 \\ -8 \\ 9 \end{bmatrix}$ with respect to $\mathcal B$ without solving a linear system.