Group $\qquad$ Scribe

Other group members

## Group Quiz for Section 4.2

Let $\mathcal{B}$ be the orthonormal basis

$$
\left(\frac{1}{\sqrt{2}}\left[\begin{array}{l}
1 \\
1 \\
0
\end{array}\right], \frac{1}{\sqrt{3}}\left[\begin{array}{c}
1 \\
-1 \\
1
\end{array}\right], \frac{1}{\sqrt{6}}\left[\begin{array}{c}
1 \\
-1 \\
-2
\end{array}\right]\right)
$$

of $\mathbb{R}^{3}$. (You don't need to verify that $\mathcal{B}$ is orthonormal.)
Find the coordinate representation of $\left[\begin{array}{c}7 \\ -8 \\ 9\end{array}\right]$ with respect to $\mathcal{B}$ without solving a linear system.

