Group $\qquad$ Scribe $\qquad$

Other group members

## Group Quiz for Section 3.5

Write the vector $\left[\begin{array}{l}0 \\ 1 \\ 2\end{array}\right]$ as a linear combination of $\left(\left[\begin{array}{c}-2 \\ 1 \\ 0\end{array}\right],\left[\begin{array}{l}1 \\ 0 \\ 1\end{array}\right]\right)$.

The fact that this is possible means that $\left[\begin{array}{l}0 \\ 1 \\ 2\end{array}\right]$ is an element of $V=\left\langle\left[\begin{array}{c}-2 \\ 1 \\ 0\end{array}\right],\left[\begin{array}{l}1 \\ 0 \\ 1\end{array}\right]\right\rangle$.
we take $\mathcal{B}=\left(\left[\begin{array}{c}-2 \\ 1 \\ 0\end{array}\right],\left[\begin{array}{l}1 \\ 0 \\ 1\end{array}\right]\right)$ as a basis of $V$, what are the coordinates of $\left[\begin{array}{l}0 \\ 1 \\ 2\end{array}\right]$ with respect to $\mathcal{B}$ ?

