Name $\qquad$ Quiz 3

1) Determine whether or not the vectors below are linearly independent. If they are not linearly independent, find a largest subset of vectors that is linearly independent. Justify your answer.

$$
\left[\begin{array}{c}
3 \\
-1 \\
2
\end{array}\right],\left[\begin{array}{l}
0 \\
4 \\
1
\end{array}\right],\left[\begin{array}{l}
2 \\
4 \\
7
\end{array}\right]
$$

2) Determine whether or not the vectors below are linearly independent. If they are not linearly independent, find a largest subset of vectors that is linearly independent. Justify your answer.
$\left[\begin{array}{c}4 \\ -2 \\ 5 \\ -5\end{array}\right],\left[\begin{array}{c}3 \\ 0 \\ 5 \\ -4\end{array}\right],\left[\begin{array}{c}-1 \\ 2 \\ 0 \\ 1\end{array}\right],\left[\begin{array}{l}1 \\ 8 \\ 3 \\ 3\end{array}\right]$
