

**Question 1:**

$$x_2 + \begin{bmatrix} -5 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix} + x_4 \begin{bmatrix} -5 \\ 0 \\ -2 \\ 1 \\ 0 \\ 0 \end{bmatrix} + x_6 \begin{bmatrix} 1 \\ 0 \\ 2 \\ 0 \\ -1 \\ 1 \end{bmatrix} .$$

**Question 2:**  $A$ ,  $B$ ,  $D$ , and  $M$  have pivots in every row, so their columns span all of  $\mathbb{R}^3$ .  $C$  has no pivot in the last row, so its columns don't span.

**Question 3:**  $B$  is the only matrix with a pivot in every column, so the only one whose columns are linearly independent.