Readiness Assurance Test

Choose the most appropriate response for each question.

31) Which of the following is a solution to the system of linear equations

$$x + 3y - z = 2$$
$$2x + 8y + 3z = -1$$
$$-x - y + 9z = -10$$

(a) $\begin{bmatrix} 1 \\ 0 \\ -1 \end{bmatrix}$
(b) $\begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix}$
(c) $\begin{bmatrix} 0 \\ 1 \\ -1 \end{bmatrix}$
(d) $\begin{bmatrix} 1 \\ -1 \\ 1 \end{bmatrix}$