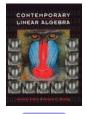
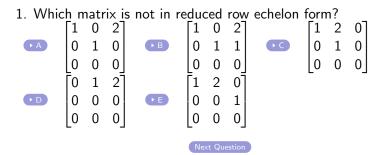
Chapter 2, Section 2 of *Contemporary Linear Algebra* by Anton and Busby



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2. Find the reduced row echelon form of

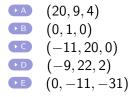
$$S = \begin{bmatrix} 0 & 2 \\ 3 & 15 \\ 1 & 4 \end{bmatrix}$$

$$A \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & 0 \\ 1 & 0 \\ 0 & 1 \end{bmatrix} B \begin{bmatrix} 0 & 0 \\ 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix} C \begin{bmatrix} 0 & 1 \\ 1 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}$$

$$E \begin{bmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix} C E Cuestion$$
Next Question

3. Find (x, y, z), given

$$y-z = 20$$
$$x+y-2z = 9$$
$$2x+y = 4$$



Next Question

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4. For what value of *a* does the system of equations with augmented matrix

$$\begin{bmatrix} 1 & -3 & -a & 2 \\ 2 & a & 1 & 0 \\ 0 & 13 & 15 & -4 \end{bmatrix}$$

have infinitely many solutions?



Next Question

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5. Solve the system whose augmented matrix, in reduced row echelon form, is

$$\begin{bmatrix} 1 & -3 & 0 & 5 \\ 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

$$x = 8, y = 1, z = 0$$
 B The system is inconsistent $x = 5 + 3y, y \in \mathbf{R}, z = 1$ $x = 5 + 3y, y \in \mathbf{R}, z = 0$ $x = 5, y = 1, z = 0$

No more questions

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Wrong...try again

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