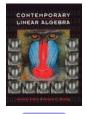
Chapter 2, Section 1 of *Contemporary Linear Algebra* by Anton and Busby



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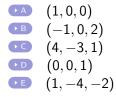
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1. Which of the following is a solution of the system

$$x - 2y + z = 1$$
  

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

$$4x - 3y + z = -2?$$

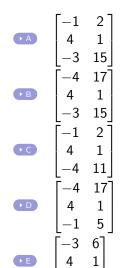


Next Question

2. Find T, given that T is obtained from S by adding three times row 3 of S to row 1 of S, where

$$S = \begin{bmatrix} -1 & 2\\ 4 & 1\\ -1 & 5 \end{bmatrix}.$$

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3. For what value of k does the system

$$\begin{array}{rcl} x - ky + z &=& 0\\ 2x + y + 2z &=& 11 \end{array}$$

have no solution?



Next Question

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4. If 
$$x + y + z = 8$$
 and  $2x - 3y + z = 2$  then  
A  $x = y$   
B  $x = 3 + 2y$   
C  $x = 2y - 3$   
D  $x = 3 - 2y$   
E  $x = 4y - 6$ 

Next Question

5. Which system of equations describes the following problem: Find a list of three numbers, adding to fifteen, such that each number (except the first) is three more than the sum of the previous numbers in the list.

► A	x + y + z = 15	-x + y = 3  -x - y + z = 3
► B	x + y + z = 15	3x + y = 15 $3x + 3y + z = 15$
► C	x + y + z = 15	3x - y = 0  3x + 3y - z = 3
► D	x + y + z = 15	x - 3y = 0  x + y - 3z = 0
► E	x + y + z = 15	x - y = 3  x + y - z = 6

No more questions







## Wrong...try again

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