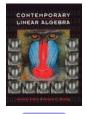
Chapter 7, Section 3 of *Contemporary Linear Algebra* by Anton and Busby



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Let

$$A = \begin{pmatrix} 1 & 2 & 3 & -1 & -8 \\ 2 & 1 & 1 & 2 & 5 \\ 0 & 0 & 2 & 2 & -6 \\ 3 & 0 & -7 & -1 & 36 \end{pmatrix}, R = \begin{pmatrix} 1 & 0 & 0 & 2 & 5 \\ 0 & 1 & 0 & -3 & -2 \\ 0 & 0 & 1 & 1 & -3 \\ 0 & 0 & 0 & 0 & 0 \end{pmatrix},$$
$$C = \begin{pmatrix} 1 & 0 & 0 & -1 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & -3 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix}.$$

Here *R* is the reduced row-echelon form of *A* and *C* is the reduced row-echelon form of A^{T} .

1. {(1,0,0,2,5), (0,1,0,-3,-2), (0,0,1,1,-3)} is a basis for row(A) col(A) null(A) null(A^T) none of these.

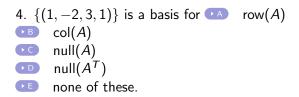
Next Question

2. $\{(1, 0, 0, -1), (0, 1, 0, 2), (0, 0, 1, -3)\}$ is a basis for A row(A) B col(A) C null(A) D null(A^T) E none of these.

Next Question

3. {(-2, 3, -1, 1, 0), (-5, 2, 3, 0, 1)} is a basis for A row(A) B col(A) C null(A) P null(A^T) E none of these.

Next Question



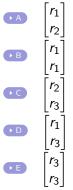
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5. Let
$$r_1 = (-1, 3, 4, 4, 5)$$
, $r_2 = (1, 5, 0, -1, 2)$, and $r_3 = (3, 1, 2, 1, 1)$, and

$$S = egin{pmatrix} 0 & 8 & 4 & 3 & 7 \ -2 & -2 & 4 & 5 & 3 \end{pmatrix}.$$

Which matrix below has the same row space as S?



No more questions

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Wrong...try again

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