

by Theorem 2.1. Thus, $R(\mathbf{A})\mathbf{X} = R(\mathbf{B})$, showing that \mathbf{X} is a solution to the new linear system obtained from $\mathbf{A}\mathbf{X} = \mathbf{B}$ after the row operation R is performed.

(14) The zero vector is a solution to $\mathbf{A}\mathbf{X} = \mathbf{0}$, but it is not a solution for $\mathbf{A}\mathbf{X} = \mathbf{B}$.

(15) Consider the systems

$$\begin{cases} x + y = 1 \\ x + y = 0 \end{cases} \quad \text{and} \quad \begin{cases} x - y = 1 \\ x - y = 2 \end{cases}.$$

The reduced row echelon matrices for these inconsistent systems are, respectively,

$$\left[\begin{array}{cc|c} 1 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right] \quad \text{and} \quad \left[\begin{array}{cc|c} 1 & -1 & 0 \\ 0 & 0 & 1 \end{array} \right].$$

Thus, the original augmented matrices are not row equivalent, since their reduced row echelon forms are different.

(16) (a) Plug each of the 5 points in turn into the equation for the conic. This will give a homogeneous system of 5 equations in the 6 variables a , b , c , d , e , and f . This system has a nontrivial solution, by Corollary 2.2.

(b) Yes. In this case, there will be even fewer equations, so Corollary 2.3 again applies.

(17) Because \mathbf{A} and \mathbf{B} are row equivalent, $\mathbf{A} = R_m(\cdots (R_2(R_1(\mathbf{B}))) \cdots)$ for some row operations R_1, \dots, R_m . Now, if \mathbf{D} is the unique reduced row echelon form matrix to which \mathbf{A} is row equivalent, then for some additional row operations R_{m+1}, \dots, R_{n+k} ,

$$\begin{aligned} \mathbf{D} &= R_{n+k}(\cdots (R_{m+2}(R_{m+1}(\mathbf{A}))) \cdots) \\ &= R_{n+k}(\cdots (R_{m+2}(R_{m+1}(R_m(\cdots (R_2(R_1(\mathbf{B}))) \cdots)))) \cdots), \end{aligned}$$

showing that \mathbf{B} also has \mathbf{D} as its reduced echelon form matrix. Therefore, by the definition of rank, $\text{rank}(\mathbf{B}) =$ the number of nonzero rows in $\mathbf{D} = \text{rank}(\mathbf{A})$.

(18) (a) $R_k(\cdots (R_1(\mathbf{A}))) \cdots$ and \mathbf{A} are clearly row equivalent. Use Exercise 17.

(b) Since the row reduction process has no effect on rows having all zeroes, at least k of the m rows in the reduced row echelon form of \mathbf{A} are rows of all zeroes. Thus, $\text{rank}(\mathbf{A}) \leq m - k$.

(c) Since \mathbf{A} is in reduced row echelon form and has k rows of zeroes, $\text{rank}(\mathbf{A}) = m - k$. But $\mathbf{A}\mathbf{B}$ has at least k rows of zeroes, so $\text{rank}(\mathbf{A}\mathbf{B}) \leq m - k$ by part (b).

(d) Let $\mathbf{A} = R_k(\cdots (R_2(R_1(\mathbf{D}))) \cdots)$, where \mathbf{D} is in reduced row echelon form. Then $\text{rank}(\mathbf{A}\mathbf{B}) = \text{rank}(R_k(\cdots (R_2(R_1(\mathbf{D}))) \cdots)\mathbf{B}) = \text{rank}(R_k(\cdots (R_2(R_1(\mathbf{D}\mathbf{B}))) \cdots))$ (by part (2) of Theorem 2.1) $= \text{rank}(\mathbf{D}\mathbf{B})$ (by part (a)) $\leq \text{rank}(\mathbf{D})$ (by part (c)) $= \text{rank}(\mathbf{A})$ (by definition of rank).

(19) As in the abridged proof of Theorem 2.9 in the text, let $\mathbf{a}_1, \dots, \mathbf{a}_m$ represent the rows of \mathbf{A} , and let $\mathbf{b}_1, \dots, \mathbf{b}_m$ represent the rows of \mathbf{B} .

For the Type (I) operation $R: (i) \leftarrow c(i)$: Now $\mathbf{b}_i = 0\mathbf{a}_1 + 0\mathbf{a}_2 + \cdots + c\mathbf{a}_i + 0\mathbf{a}_{i+1} + \cdots + 0\mathbf{a}_m$, and, for $k \neq i$, $\mathbf{b}_k = 0\mathbf{a}_1 + 0\mathbf{a}_2 + \cdots + 1\mathbf{a}_k + 0\mathbf{a}_{k+1} + \cdots + 0\mathbf{a}_m$. Hence, each row of \mathbf{B} is a linear combination of the rows of \mathbf{A} , implying it is in the row space of \mathbf{A} .

For the Type (II) operation $R: (i) \leftarrow c(j) + (i)$: Now $\mathbf{b}_i = 0\mathbf{a}_1 + 0\mathbf{a}_2 + \cdots + c\mathbf{a}_j + 0\mathbf{a}_{j+1} + \cdots + \mathbf{a}_i + 0\mathbf{a}_{i+1} + \cdots + 0\mathbf{a}_m$, where our notation assumes $i > j$. (An analogous argument works for $i < j$.) And, for $k \neq i$, $\mathbf{b}_k = 0\mathbf{a}_1 + 0\mathbf{a}_2 + \cdots + 1\mathbf{a}_k + 0\mathbf{a}_{k+1} + \cdots + 0\mathbf{a}_m$. Hence, each row of \mathbf{B} is a linear

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