A are linearly dependent, and Ay is a linear combination of the columns of A). Let x be a solution to Ax = b. Then clearly $x + y \neq x$ is also a solution. This contradicts the uniqueness of the solution. Hence, rank A = n.

es: By Theorem 2.1, a solution exists. It remains to prove that it is unique. For this, let x and y be solutions, i.e., Ax = b and Ay = b. Subtracting, we get A(x - y) = 0. Since rank A = n and A has n columns, then x - y = 0 and hence x = y, which shows that the solution is unique.

2.3

Consider the vectors $\bar{a}_i = [1, a_i^\top]^\top \in \mathbb{R}^{n+1}$, i = 1, ..., k. Since $k \ge n + 2$, then the vectors $\bar{a}_1, ..., \bar{a}_k$ must be linearly independent in \mathbb{R}^{n+1} . Hence, there exist $\alpha_1, ..., \alpha_k$, not all zero, such that

$$\sum_{i=1}^{k} \alpha_i \alpha_i = 0.$$

The first component of the above vector equation is $\sum_{i=1}^{k} \alpha_i = 0$, while the last n components have the form $\sum_{i=1}^{k} \alpha_i a_i = 0$, completing the proof.

2.4

a. We first postmultiply M by the matrix

$$\begin{bmatrix} I_k & O \\ -M_{m-k,k} & I_{m-k} \end{bmatrix}$$

to obtain

$$\begin{bmatrix} \boldsymbol{M}_{m-k,k} & \boldsymbol{I}_{m-k} \\ \boldsymbol{M}_{k,k} & \boldsymbol{O} \end{bmatrix} \begin{bmatrix} \boldsymbol{I}_k & \boldsymbol{O} \\ -\boldsymbol{M}_{m-k,k} & \boldsymbol{I}_{m-k} \end{bmatrix} = \begin{bmatrix} \boldsymbol{O} & \boldsymbol{I}_{m-k} \\ \boldsymbol{M}_{k,k} & \boldsymbol{O} \end{bmatrix}.$$

Note that the determinant of the postmultiplying matrix is 1. Next we postmultiply the resulting product by

$$\begin{bmatrix} O & I_k \\ I_{m-k} & O \end{bmatrix}$$

to obtain

$$\begin{bmatrix} O & I_{m-k} \\ M_{k,k} & O \end{bmatrix} \begin{bmatrix} O & I_k \\ I_{m-k} & O \end{bmatrix} = \begin{bmatrix} I_k & O \\ O & M_{k,k} \end{bmatrix}.$$

Notice that

$$\det M = \det \begin{pmatrix} \begin{bmatrix} I_k & O \\ O & M_{k,k} \end{bmatrix} \end{pmatrix} \det \begin{pmatrix} \begin{bmatrix} O & I_k \\ I_{m-k} & O \end{bmatrix} \end{pmatrix}$$
.

withdress.

$$\det \begin{pmatrix} \begin{bmatrix} O & I_k \\ I_{m-k} & O \end{bmatrix} \end{pmatrix} = \pm 1.$$

The above easily follows from the fact that the determinant changes its sign if we interchange columns, as discussed in Section 2.2. Moreover,

$$\det \begin{pmatrix} \begin{bmatrix} I_k & O \\ O & M_{k,k} \end{bmatrix} \end{pmatrix} = \det(I_k) \det(M_{k,k}) = \det(M_{k,k}).$$

Hence.

$$\det M = \pm \det M_{k,k}$$
.

b. We can see this on the following examples. We assume, without loss of generality that $M_{m-k,k} = O$ and let $M_{k,k} = 2$. Thus k = 1. First consider the case when m = 2. Then we have

$$M = \begin{bmatrix} O & I_{m-k} \\ M_{k,k} & O \end{bmatrix} = \begin{bmatrix} 0 & 1 \\ 2 & 0 \end{bmatrix}.$$

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Annelies Wilder-Smith

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