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Until 19th century, linear algebra was introduced through systems of linear equations and matrices. In modern mathematics, the presentation through vector spaces is generally preferred, since it is more synthetic, more general (not limited to the finite-dimensional case), and conceptually simpler, although more abstract.. A vector space over a field F (often the field of the real numbers) is a ...

Linear algebra - Wikipedia

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In mathematics, and more specifically in linear algebra and functional analysis, the kernel (also known as null space or nullspace) of a linear map $L : V \rightarrow W$ between two vector spaces V and W , is the set of all elements v of V for which $L(v) = 0$, where 0 denotes the zero vector in W . That is, in set-builder notation, $\text{ker } L = \{v \in V \mid L(v) = 0\}$.

Kernel (linear algebra) - Wikipedia

This is the Student Solutions Manual to accompany Elementary Differential Equations, 11th Edition. Elementary Differential Equations, 11th Edition is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. The authors have sought to combine a sound and ...

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