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### Applied mathematics - Wikipedia

That is, the solutions of  $Ax = 0$  are the vectors of the form  $x = Nz$ . In other words, the columns of  $N$  span the null space of  $A$ . One can also use the technique to solve inhomogeneous equations  $Ax = b$ . One simply applies the theory to the augmented matrix  $[A \ b]$ . There is a solution when the last column of  $A$  is not a pivot column. A particular solution

Prior to joining the faculty of Polytechnic University, he was a Senior Weizmann Fellow at the Weizmann Institute of Science. His research interests include applied mathematics and nonlinear wave propagation, as well as perturbation and asymptotic solutions of partial differential equations.

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In this case,  $x = f^{-1}(f(x)) = f(f^{-1}(x))$  for values of  $x$  where both  $f(x)$  and

$f^{-1}(x)$  are defined. For example  $\ln x$ , which maps  $\mathbb{R}^+$  to  $\mathbb{R}$  is the inverse of

ex.  $x = e^{\ln x} = \ln(e^x)$  for all  $x \in \mathbb{R}^+$ .

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