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~~following~~

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System Solving  $Ax=b$

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~~(2020-10-06)~~ Find

one Nontrivial

Solution of  $Ax=0$  by

Inspection #05

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system of linear

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Linear Algebra 1.7.1

Linear Independence

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~~Non Trivial Solution |~~  
~~Complete Concept~~  
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The equation  $x + 5y = 0$  contains an infinity of solutions. Among these, the solution  $x = 0, y = 0$  is considered

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to be trivial, as it is easy to infer without any additional calculation. All other solutions are nontrivial. Similarly, the differential equation  $y' = y$  has the trivial solution  $y = 0$  and the nontrivial solution  $y(x) = \exp(x)$ .

~~What Is a Trivial~~

*Page 12/31*

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Rank of A is 3 and  
rank of (A, B) is 3.

Since rank of A and  
rank of (A, B) are  
equal, it has trivial  
solution. Question 2 :  
Determine the values  
of  $\lambda$  for which the  
following system of  
equations  $x + y + 3z =$   
 $0, 4x + 3y + \lambda z = 0, 2x$   
 $+ y + 2z = 0$  has (i) a

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## Linear Algebra

unique solution (ii) a non-trivial solution.

### ~~Solving Equations for Trivial and Nontrivial Solutions~~

If the vectors have a non-trivial solution to one of these equations, those vectors are linearly dependent. However, if there isn't a non-trivial solution, the

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## ~~How To Understand Linear Independence (Linear Algebra ...~~

In differential equations, a "trivial" solution is the identically zero solution,  $f(t) = 0$  for all  $t$ . In Linear Algebra, a "trivial" solution is just the zero solution,  $x =$

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0. It is easy to prove that a system of linear homogeneous differential equations, with a given initial value condition, has a unique solution.

~~A trivial question |  
Physics Forums~~

A solution or example that is not trivial .  
Often, solutions or examples involving



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the number zero are considered trivial. Nonzero solutions or examples are considered nontrivial. For example, the equation  $x + 5y = 0$  has the trivial solution  $(0, 0)$ . Nontrivial solutions include  $(5, -1)$  and  $(-2, 0.4)$ .

~~Mathwords: Nontrivial~~  
**SOLUTIONS**

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EDITION LEON ... If  
there are no free  
variables, then the  
trivial solution will be  
the only solution. 14.  
A nonhomogeneous  
system could be  
inconsistent in which  
case there would be  
no solutions.

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If, on the other hand,  
M has an inverse,  
then  $Mx=0$  only one  
solution, which is the  
trivial solution  $x=0$ .

Another consequence  
worth mentioning, we  
know that if M is a

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Square matrix, then it is invertible only when its determinant  $|M|$  is not equal to zero.

Hence,  $Mx=0$  will have non-trivial solutions whenever  $|M| = 0$ . Detecting Non-Trivial Solutions

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Preface This solutions manual is designed to accompany the ninth edition of Linear Algebra with Applications by Steven J. Leon. The answers in this

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Solutions supplement  
those given in the  
answer key ...

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13. A homogeneous system is always consistent since it has the trivial solution  $(0; \dots; 0)$ . If the reduced row echelon form of the coefficient matrix

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involves free variables, then there will be infinitely many solutions. If there are no free variables, then the trivial solution will be the only solution.

14.

~~Steven J. Leon~~  
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## ~~Student Study ...~~

Every homogeneous system has at least one solution, known as the zero (or trivial) solution, which is obtained by assigning the value of zero to each of the variables. If the system has a non-singular matrix ( $\det(A) \neq 0$ ) then it is also the only solution. If the system has a

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Singular matrix then  
there is a solution set  
with an infinite  
number of solutions.

~~System of linear  
equations - Wikipedia~~

A collection of linear  
equations which are  
all set equal to 0. See  
here. See p.359.

Trivial and non-trivial  
solutions. A  
homogeneous system

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~~Solutions~~ always has a solution

where all of the variables are 0. This is the trivial solution.

A non-trivial solution is a solution where at least one variable is not 0. See here again, and p.359 of the text.

~~Annotated and linked table of linear algebra terms~~

Free practice

*Page 28/31*

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Non-trivial solutions  
exist for:  $\cosh \theta = \cos$   
 $\theta + 1 = 0$ . smallest

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possible solution is:  $\begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}$

$= 1.875104. 0$

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