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Linear Equations
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Learn the
Condition of the

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System of Linear
Equations has

...

So there are
infinitely many
solutions.

Example 3 : In
the linear
equation given
below, say
whether the
equation has
exactly one
solution or

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infinitely many
solution or no
solution. $4x + 2$
 $= 4x - 5$.

Solution : Solve
the given
equation. We
find the same
coefficient for
 x on both sides.
So, subtract $4x$
on both sides to
get rid of x -
terms.

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One Solution, No
Solution, or
Infinitely Many
Solutions ...

Hence, the given
linear equation
has no solution
or the number of
solutions is
zero. From the
above examples,
we can see that
the variable x

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disappears /
gets eliminated
& hence we say
that the linear
equation will
have Zero or no
solution if it
can't be
satisfied by any
value of the
variable or
there does not
exist any value
of the variable

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Linear Equations

which makes the given equation a true statement.

5.4 Solving Equations with Infinite or No Solutions

For example, the system of linear equations $x + 3y = 5$; $x - y = 1$ is consistent, because $x = 2$, y

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$x = 1$ is a solution to it. However, the system of linear equations $x + 3y = 5$; $2x + 6y = 8$ is inconsistent, because there is no set of values of x and y which may satisfy the two equations simultaneously.

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**Linear Equations
with No
Solutions or
Infinite
Solutions ...**

**The solution to
any system of
linear equations
is the point
where the lines
intersect on a
graph, however,
because lines**

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can be parallel
or coinciding,
it is possible
for a system to
have no ...

Linear equations
with one, zero,
or infinite
solutions ...

The system has
no solution.

Geometric
interpretation.

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For a system involving two variables (x and y), each linear equation determines a line on the xy -plane. Because a solution to a linear system must satisfy all of the equations, the solution set is

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the intersection of these lines, and is hence either a line, a single point, or the empty set.

System of linear equations -
Wikipedia
Explanatory
Answer Condition
for Unique
Solution to

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Linear Equations

Linear

Equations. A system of linear equations $ax + by + c = 0$ and $dx + ey + g = 0$ will have a unique solution if the two lines represented by the equations $ax + by + c = 0$ and $dx + ey + g = 0$ intersect at a

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point.

How to Know when
an Equation has
NO Solution, or
...

Don't forget:
There is never
any reason to be
unsure of your
solution to a
linear equation,
because you can
always check

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your answer. The meaning of the solution value is that it is the x -value that makes the equation true. So, to check your answer, you plug your solution value back into the original equation, and

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you make sure
that the
equation "works"
with that value.

System of Linear
Equations | No
Unique solution
| GMAT ...

Sometimes
equations have
no solution.

This means that
no matter what

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value is plugged in for the variable, you will ALWAYS get a contradiction. Watch this tutorial and learn what it takes for an equation to have no solution.

Equations with
Many Solutions

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or No Solution
Linear Systems
of Equations
with No Solution
. A linear
system has no
solution if the
graphs of the
equations have
no points in
common. That is,
if the lines are
parallel and
distinct, the

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linear system
does not have a
solution.

Example 1. Graph
each equation to
find the
solution of this
system.

Solutions of
Systems of
Linear Equations
| Problems in

...

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Algebraic
Equations with
an Infinite
Number of
Solutions. You
have seen that
if an equation
has no solution,
you end up with
a false
statement
instead of a
value for x . It
is possible to

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have an equation
where any value
for x will
provide a
solution to the
equation. In the
example below,
notice how
combining the
terms $5x$
and $-4x$
on the left
leaves us with

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Solving Linear
Equations w/
Zero Soln's, No
Soln, and "All
...

For a given
system of linear
equations, there
are only three
possibilities
for the solution
set of the

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system: No
solution
(inconsistent),
a unique
solution, or
infinitely many
solutions. The
possibilities
for the solution
set of a
homogeneous
system is either
a unique
solution or

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Linear Equations
infinitely many
solutions.

Linear Systems
of Equations
with No Solution
This video
explains how to
determine if a
linear equation
has no solutions
or infinite
solutions. <http://mathispower4u>.

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Linear Equations
A linear
equation in two
variables is an
equation of the
form $ax + by + c$
 $= 0$ where $a, b,$
 $c \in \mathbb{R}, a,$ and b
 $\neq 0$. A system of
linear equations

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that has no solution is called an inconsistent pair of linear equations.

What Does It Mean When An Equation Has No Solution ...

A very simple example is $x+y=1$ [m

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Linear Equations

$$x+y=2$$

A little more generally, $ax+by=c$
 $ax+by=d$ where
 $c \neq d$.

Typically, you have a system represented by the equation, $Av=b$ where the rows of A are

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Can a system of
linear equations
have no
solution? |

Study.com

Write an
equation with no
solution : We
can use the
results of
linear equations
to write an

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equation that
has no solution.

Write an
equation with no
solution -

Example. Write a
linear equation
in one variable
that has no
solution. Since
we want to write
a linear
equation in one
variable that

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has no solution,
let us start
with a false
statement ...

What are some
examples of
linear equation
with no solution
...

Here's the logic
for the above
example: When
you try to solve

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an equation, you are starting from the (unstated) assumption that there actually is a solution. When you end up with nonsense (like the nonsensical equation " $4 = 5$ " above), this means that your

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initial
assumption
(namely, that
the original
equation
actually had a
solution) was
wrong; in fact,
there is no
solution.

**WRITE AN
EQUATION WITH NO
SOLUTION -**

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onlinemath4all
Many students assume that all equations have solutions. This article will use three examples to show that assumption is incorrect. Given the equation $5x - 2 + 3x = 3(x+4) - 1$ to solve, we will

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collect our like
terms on the
left hand side
of the equal
sign and
distribute the 3
on the right
hand side of the
equal sign. $5x$
...

Solving Linear
Equations: w/
Paren's; "All

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Linear Equations
x", "No x" Soln

...

5.4 Solving
Equations with
Infinite or No
Solutions So far
we have looked
at equations
where there is
exactly one
solution. It is
possible to have
more than
solution in

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other types of equations that are not linear, but it is also possible to have no solutions or infinite solutions. No solution would mean that there is no answer to the equation.

Solution of

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Linear Equations

using Matrix

Method | BYJU'S

This algebra

video tutorial

explains how to

determine if a

system of

equations

contain one

solution, no

solution, or

infinitely many

solutions. It

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Linear Equations
also explain...

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