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Solving Absolute  
Value Equations with  
Extraneous Solutions  
Extraneous Solutions  
Absolute Value  
Equations

Solve the equation.

Check for extraneous solutions.  $|4x| = 28$ .

Absolute value is the distance away from zero.  $|4x| = 28$ .  $4x = 28$  or  $4x = -28$  {the two numbers that are

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28 away from zero  
are 28 and -28}  $x = 7$   
or  $x = -7$  {divided  
each side by 4}

Check. If it makes a  
false statement, then  
it is an extraneous  
solution.

~~Checking an absolute  
value equation for  
extraneous solutions~~  
To solve an absolute  
value problem, we

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first isolate the absolute value term and then separate the equation into two cases: the positive case and the negative case. After which we solve the...

~~Solving an Absolute Value Equation and Checking for ...~~

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~~Solving absolute value equations with extraneous solutions~~

...

If it makes a false statement, then it is an extraneous solution. Checking an

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absolute value  
equation for  
extraneous solutions  
Absolute value of a  
number is the  
positive value of the  
number. For instance,  
the absolute value of  
2 is 2 and the  
absolute value of -2 is  
also 2. To solve an  
absolute value  
problem, we first...



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~~Extraneous Solution~~

~~Absolute Value~~

There are two solutions:  $x = -6$  and  $x$

$= 6$ . You express this solution in brackets:

$\{-6, 6\}$ . Now consider

$$x + 1 = 6. \text{ Again}$$

the operation inside

the absolute value

bars must equal  $-6$  or

$6$ . To solve two

separate equations.  $x$

$+ 1 = 6$  and  $x + 1 = -6$ .

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$x = 5$   $x = -7$  The  
solution set is  $\{-7, 5\}$

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Value Equations—  
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an absolute value  
equation has  
extraneous solution is  
available in our book  
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access to it is set as  
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digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Kindly say, the an absolute value equation has ...

~~An Absolute Value Equation Has Extraneous Solution~~  
Your absolute value

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equation looks like this.  $|x + 6| = 2x$ .

Right from the start, you can say that any negative value of  $x$  will be an extraneous solution because the absolute value of a number can only be positive. So, you need to check two cases for your equation. If  $(x + 6) > 0$ , you have.  $|x + 6| = x + 6$ . The

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Equation becomes.  $x + 6 = 2x$   $x = 6$ .

~~How do you solve and check for extraneous solutions in abs ...~~

$|1 + 2x| = 3$  or  $|1 + 2x| = 9$  ---> So you see that the absolute value is positive in either case. When we go through the same process with  $|2x + 5| = x + 1$ , we get that  $x =$

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-4 or  $x = -2$ . And when we plug those values back in to the original,  $x + 1$ , we get.  $|2x + 5| = -3$  or  $|2x + 5| = -1$  ---> but an absolute value can never be negative!

~~Absolute Value  
Equations - Magoosh  
GRE~~

Algebra -> Absolute-  
value-> SOLUTION:

*Page 22/37*

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Solve each equation.

Check for extraneous solutions. Check for extraneous solutions.

Equation:

$|5x-1|+7=3x$  Here's what I did:

$$|5x-1|+7=3x \quad -7 \quad -7$$

$$|5x+1|=3x-7$$

$$5x-1=3x-7 \quad \text{OR}$$

$$5x-1=-(3x-7) \quad +1 \quad \text{Log}$$

On

~~SOLUTION:~~ Solve

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~~each equation. Check  
for extraneous ...~~

In mathematics, an extraneous solution is a solution, such as that to an equation, that emerges from the process of solving the problem but is not a valid solution to the problem. A missing solution is a solution that is a valid solution to the



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problem, but disappeared during the process of solving the problem. Both are frequently the consequence of performing operations that are not invertible for some or all values of the variables, which prevents the chain of logical implications in the proof

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Extraneous

~~Extraneous and  
missing solutions~~

~~Wikipedia~~

When we get all the possible answers, we need to check for extraneous solutions, since we 're dealing with absolute value.

We found 2 answers that worked:

$$x = \frac{3}{2} \text{ and } x = \frac{3}{2}$$

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$\frac{1}{(x+1)^2}$  Extraneous

Solutions

~~Solving Absolute  
Value Equations and  
Inequalities — She ...~~

Enter any values and  
this solver will  
calculate the solution  
(s) for your equation  
and show all work,  
including checking  
for extraneous  
solutions!  $|A X + B| =$   
D. Only enter

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numbers into the absolute value equations solver. No solution. Absolute Values must evaluate to a positive value. So, your value for D must be positive.

~~Absolute Value Equation Solver. Shows work and all steps ...~~

An absolute value

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Equation is an equation that contains an absolute value expression. You can solve these types of equations by solving two related linear equations.

Property of Absolute Value Solving Absolute Value Equations

Solving Absolute

*Page 29/37*

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~~Value Equations~~

Steps. The General

Steps to solve an

absolute value

equation are: Rewrite

the absolute value

equation as two

separate equations,

one positive and the

other negative. Solve

each equation

separately. After

solving, substitute

your answers back

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into original equation to verify that you solutions are valid.

Write out the final solution or graph it as needed.

~~Absolute Value Equations: How to solve absolute value ...~~

Generalizing, we could say that if  $E$  is any algebraic expression, and  $k$  is

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any positive number,  
then the equation  
absolute value of  $E =$   
 $k$  has the solutions  $E$   
 $= k$  or  $E = -k$ .

~~Advanced Algebra:  
Absolute Value  
Equations - Magoosh  
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with extraneous solutions, Square root equations.

Absolute Value

~~Finding Extraneous Solutions Worksheets~~  
~~—Learny Kids~~

I have come across the concept of extraneous solutions, particularly when solving absolute value equations, radical equations, and

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logarithmic  
equations. My  
question is, why do  
these solutions exist?

My teacher never  
explained this, which  
is understandable  
given that I am in a  
High School math  
class, and there isn't  
much time for the  
teacher to go into the  
actual derivations of  
everything.

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~~algebra precalculus~~

~~Why do extraneous  
solutions exist ...~~

The website claims

$8/3$  is a solution, but

it certainly doesn't

seem like it is. Can

someone explain, in a

mathematical sense,

why this discrepancy

comes about? Is there

any way to know that

an answer is

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extraneous or should  
one always check  
solutions to absolute  
value equations to  
make sure they are  
indeed solutions?

Thanks!

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e74559cabd4

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