# Ex 1: |x - 1| = 4

<b>_</b>	<b>I</b>	
Rearrange the equation so that the	absolute value bars are one side and	
everything else is on the other side.		
Rewrite the equation by removing the	absolute value bars and adding a plus	
or minus sign to the other side.		
Determine your two new equations to be solved.		
Equation #1	Equation #2	
Calva and assertion agreement		
Solve each equation separat	ely using inverse operations.	
Solve Equation #1	Solve Equation #2	
Substitute each solution into the original	I inal equation to check for extraneous	
	tions.	
	T	
Check First Solution	Check Second Solution	
Graph the solution	s on a number line.	
<b>4</b>		
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### $\mathbf{E}\mathbf{x} \ \mathbf{2} : |-\mathbf{3} - \mathbf{x}| = \mathbf{2}$

Rearrange the equation so that the absolute value bars are one side and everything else is on the other side.	
	e absolute value bars and adding a plus of the other side.
Determine your two new equations to be solved.	
Equation #1	Equation #2
Solve each equation separately using inverse operations.	
Solve Equation #1	Solve Equation #2
Substitute each solution into the original equation to check for extraneous solutions.	
Check First Solution	Check Second Solution
Graph the solutions on a number line.	

## $\mathbf{Ex} \ \mathbf{3:} \ -\mathbf{4} \ + \ |-\mathbf{2x}| = \mathbf{16}$

Rearrange the equation so that the absolute value bars are one side and		
everything else is on the other side.		
Rewrite the equation by removing the absolute value bars and adding a plus		
	o the other side.	
51 1111113 31g11 to	o the other side.	
Determine your two nev	v equations to be solved.	
Determine your two new	r equations to be solved.	
Equation #1	Equation #2	
Solve each equation senaral	ely using inverse operations.	
	The state of the s	
Calua Farration #1		
Solve Equation #1	Solve Equation #2	
Solve Equation #1	Solve Equation #2	
Solve Equation #1	Solve Equation #2	
Solve Equation #1	Solve Equation #2	
Solve Equation #1	Solve Equation #2	
Solve Equation #1	Solve Equation #2	
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Substitute each solution into the orig	inal equation to check for extraneous	
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Substitute each solution into the original solution into the original solution.  Check First Solution	inal equation to check for extraneous tions.	
Substitute each solution into the original solution into the original solution.  Check First Solution	tinal equation to check for extraneous tions.  Check Second Solution	

#### $\mathbf{Ex} \ \mathbf{4:} \ -|-\mathbf{4} \ + \ \mathbf{2x}| \ - \ \mathbf{8} \ = \ -\mathbf{16}$

Rearrange the equation so that the absolute value bars are one side and everything else is on the other side.	
	absolute value bars and adding a plus the other side.
Determine your two new equations to be solved.	
Equation #1	Equation #2
Solve each equation separately using inverse operations.	
Solve Equation #1	Solve Equation #2
Substitute each solution into the original equation to check for extraneous solutions.	
Check First Solution	Check Second Solution
Graph the solution	s on a number line.

## $\mathbf{Ex} \ \mathbf{5:} \ \mathbf{5} + |\mathbf{-2x} + \mathbf{10}| = \mathbf{5}$

Rearrange the equation so that the absolute value bars are one side and		
everything else is on the other side.		
Rewrite the equation by removing the absolute value bars and adding a plus		
or minus sign t	o the other side.	
Determine your two new equations to be solved.		
Equation #1	Equation #2	
Solve each equation separately using inverse operations.		
Solve Equation #1	Solve Equation #2	
Substitute each solution into the original equation to check for extraneous		
solu	tions.	
<b>Check First Solution</b>	Check Second Solution	
	1	
Graph the solution	ns on a number line.	
Graph the solution	ns on a number line.	

### $\mathbf{E}\mathbf{x} \ \mathbf{6:} \ -\mathbf{8}|\mathbf{3} \ -\mathbf{8}\mathbf{x}| = \mathbf{40}$

Rearrange the equation so that the absolute value bars are one side and everything else is on the other side.		
Rewrite the equation by removing the absolute value bars and adding a plus or minus sign to the other side.		
Determine your two new equations to be solved.		
Equation #1	Equation #2	
Solve each equation separately using inverse operations.		
Solve Equation #1	Solve Equation #2	
Substitute each solution into the original equation to check for extraneous solutions.		
Check First Solution	Check Second Solution	
Graph the solutions on a number line.		