Algebra 2

0-03 Solve Absolute Value Equations and Inequalities

Absolute Values				
from origin to coordinate				
In one dimension, turns the number				
• $ x = b$				
• Distance between is <i>b</i>				
• $ x-k = b$				
• Distance between is <i>b</i>				
Steps to Solve Absolute Value Equations				
1. Write equations.				
a. One with the absolute value expression				
b. One with the absolute value expression	·			
2each equation.				
3your solutions.				
Solve $ x - 3 = 10$	2x+5 = 3x			
4x - 1 = 2x + 9				
Absolution Value Inequalities				
Solve absolute value inequalities the same as				
Exception: write answer as				
Solve $ 2x - 7 > 1$	$ 7-x \le 4$			

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٠	In manufacturing,	is the amount of allowed	between the
	measurement and the	·	

 $|Actual - Standard| \leq Tolerance$

Ostrich eggs have an average mass of 1950 grams, with a tolerance of 350 grams. Write and solve an absolute value inequality that describes the mass of ostrich eggs.