Solve the problems.

How many solutions does the equation 4x + 3 - 1 = 2(2x + 2) - 2x have? Explain your reasoning.

Show your work.

How can you simplify the equation?



Solution: _____

- 2 For which value of c will the equation 2x 5 = 2x c have an infinite number of solutions? Select all that apply.
 - **A** 3
 - **B** 4
 - **C** 5
 - **D** 6

How can you tell when a linear equation has an infinite number of solutions?



- For which value of c will the equation 3x + c = 3x + 2 have no solution? Select all that apply.
 - **A** 2
 - **B** 3
 - **C** 4
 - D 5

How can you tell when a linear equation has no solution?



Charles chose **A** as the correct answer. How did he get that answer?



Solve.

Tell	I whether each statement is <i>True</i>	or False.	Do you need to
a.	3t + 7 = 3t + 6 has no solution.	True False	simplify any of the equations?
b.	5x - 6 = 3x - 6 + 2x has one solution.	True False	005
c.	5 + 5b - 3 = 2 + 5b has infinitely many solutions.	True False	3.000
d.	When an equation has one solution, the variable terms on both sides are the same.	True False	
Nyoko wrote these two equations.			How can you tell
_	quation 1: $6x - 5 + 2x = 4(2x - 4)$ quation 2: $3x + 7 = bx + 7$	when a linear equation has one	
	art A		solution, no solution, or infinitely many
Ny	yoko says that Equation 1 has one gree with her? Explain your reason	solutions?	
_	now your work.		
So	olution:		
Pa	art B		
Ca	an Nyoko find a value for <i>b</i> in Equa quation has no solutions? Explain		
eq			