Name ______ per. _____

Special Cases Worksheet

No solution:	One solution:	Many solutions:	
When the two sides don't equal	When x = a number.	When the two sides are equal.	
each other. 3x + 4 = 3x + 6 $-3x - 3x$ $4 = 6$	2x = 20 X = 10	$ \begin{array}{r} 6x - 4 = 6x - 4 \\ -6x - 6x \\ -4 = -4 \end{array} $	

Directions: Decide how many solutions each equation will have and prove it by solving the equation.

1) x + x = 2	I think there is going to be solution(s).	2) b = -b + 2	I think there is going to be solution(s).	
The answer to my equation shows there are solution(s).		The answer to my equation shows there are solution(s).		
3) 9x - 8 = -8 + 9x	I think there is going to be solution(s).	4) 2y + 5 = 2y - 9	I think there is going to be solution(s).	
The answer to my equation shows there are solution(s).		The answer to my equation shows there are solution(s).		
5) -2(w -18) = 16w	I think there is going to be solution(s).	6) y + 5 = 2y + 10	I think there is going to be solution(s).	
The answer to my equation shows there are solution(s).		The answer to my equation shows there are solution(s).		