8.1
MARCH 3

Solving Linear Equations

Concept/Key Terms	Example	Explanation/Rules
Equation	$ax + b = c$	expression on both sides of equals are true. When value is substituted for variable it is true
	EX 1) $x + 3 = 9$	$x = 6$ is the solution because $(6) + 3 = 9$ $9 = 9$ ✓
Addition Principle	$A = B$ $A + C = A + B$	Adding the same number to both sides makes equivalent equations.
	EX 2) $x - 4 = 12$ $x - 4 + 4 = 12 + 4$ $\boxed{x = 16}$	Use this to solve an equation ADD +4 to both sides to solve (opp of -4)
	$x - 4 = 12$ $(16) - 4 \overset{?}{=} 12$ $12 = 12$ ✓	check solution

SUMMARY

ADD THE OPPOSITE OF THE CONSTANT THAT IS WITH THE VARIABLE TO BOTH SIDES TO SOLVE THE EQUATION.