**6.1 – Solving One-Step Equations**

When we are asked to **solve** an equation, we need to find for what values of the variable the equation is "true". We can check to see if a given value is a **solution** by substituting it into the equation and seeing if it is in fact "true".

Ex. 1: Determine whether or not the given value is a solution of the equation.

1. Is a solution to ? (b) Is a solution to ?

We can solve an equation by "undoing" whatever is being done to the variable. Inverse operations allow us to do this:

* The inverse of addition is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and vice versa.
* The inverse of multiplication is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and vice versa.

Remember that whatever you do to the left-hand side of the equation, you must also do to the right-hand side and vice versa.

Ex. 2: Solve the following equations. Verify your solutions.

1. (b) (c)

(d) (e)