**PC11**

**Restrictions and Non-Permissible Values**

**Restriction(s):** Restriction is a rule or a set of rules that is imposed on a variable (or variables) to ensure that the radical is defined.

In other words: A restriction is a rule a variable must follow to ensure that the radical expression is defined.

* To determine restrictions on a variable, follow the procedure that you learned to determine when is a given radical defined. What changes is the final statement.

The inequality you have to solve for any radical with an even index is:

* Write the final statement that clearly state the restriction. If there are no restrictions write either: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

Examples: Determine restrictions for the given radical expression.

**Non-Permissible Value(s) = NPV(s)** is (are) value(s) of a variable that make a radical expression undefined.

* To determine NPVs, follow the procedure that you learned to determine when is a given radical undefined. What changes is the final statement.

The inequality you have to solve for any radical with an even index is:

* Write the final statement that clearly state the NPVs. If there are no NPVs write:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Example: Determine the non-permissible values for the given radical expressions.