**4.4 – INTRODUCTION TO TRIGONOMETRIC EQUATIONS**

To solve trigonometric equations, you always need to simplify them into BASIC trig equations.

**I – BASIC EQUATIONS:** They are in the form

As previously seen in 4.3, you need to:

* Locate the possible quadrants.
* Determine the reference angle (preferably its exact value)
* Give all the possible values of in the given interval or general form.

Examples:

1. for
3. for
4. for

Your turn: a) for   
 b) Gal solution  
 c) for   
 d) for

**II – OTHER TRIGONOMETRIC EQUATIONS:** Your goal is to go back to basic ones!

Example 1: Solve for

Your turn p 208

Example 2: Solve

Your turn p 209

Example 3: Solve

Your turn p 210

**Hwk: p 211 # 1, 3 – 5, 7 – 13, 15, 16, 18 – 23.**