Solving Trigonometric Equations

Solving trigonometric equations is virtually the same as you did in Year 1, except:

1. Your calculator needs to be in radians mode.
2. We use instead of , and so on.

Remember

* repeat every but every

Example

Solve the equation   
 in the interval .

Test Your Understanding

**[Jan 07 Q6]**

Find all the solutions, in the interval 0 ≤ *x* < 2*π*, of the equation

2 cos2 *x* + 1 = 5 sin *x*, giving each solution in terms of *π*. **(6)**

Extension

[MAT 2010 1C] In the range , the equation has how many solutions?

Ex 5E Pg 131