**5.1 – GRAPHING SINE AND COSINE FUNCTIONS**

The graphs of and look a lot alike.

They are both sinusoidal curves with a period .

Sinusoidal means that the curve oscillates repeatedly up and down from a centre line.

A period is the number of units every which the graph repeats itself exactly.

A diagram of a graph

Description automatically generated

**I – Graph of .**

A graph of a function

Description automatically generated

To reproduce this graph, you need to learn the characteristics of the graph over 1 period :

A graph of a sine curve

Description automatically generated

Max : Min :

Amplitude :

Period or

intercept :

intercepts : (on the cycle showed)

Domain : Range :

**II – Graph of .**

A graph of a function

Description automatically generated

To reproduce this graph, you need to learn the characteristics of the graph over 1 period:

Max : Min :

Amplitude :

Period or

intercept :

intercepts : (on the cycle showed)

Domain : Range :

A graph of a function

Description automatically generated

The two graphs are very similar. One is a horizontal translation of the other one.

A graph of a function

Description automatically generated

**Hwk: p 233 # 1 – 11, 14, 15, 17, 20, 22 – 24.**