

FUNTAJ INTERNATIONAL SCHOOL ABUJA

Holiday Assignment

Subject: General Mathematics

Class: Year 10

1. (a) Copy and complete the table of values for $y = 1 - 4 \cos x$

x	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
y	-3.0			1.0				4.5			-1.0

(b) Using a scale of $2cm$ to 30° on the x – axis, and $2cm$ to 1 unit on the y – axis, draw the graph of $y = 1 - 4 \cos x$ for $0^\circ \leq x \leq 300^\circ$.

(c) Use the graph to solve the equation $1 - 4 \cos x = 0$

2. If p and q are logical statements, copy and complete the following truth table.

p	q	$p \vee q$	$\sim(p \vee q)$	$\sim p$	$(p \vee q) \wedge \sim p$	$\sim(p \vee q) \Rightarrow \sim p$
T	T					
T	F					
F	T					
F	F					