

Student Name: Luke Le

Section Number: 51002

**DATA****A. Variable Tension, Constant Frequency and Length**

Table 11.1		
$\mu$ (sim) = 3.2e-3 kg/m		
$L$ = 4 m		
$f$ = 125 hz		
$n$	$1/n^2$	$F_T$
6	0.0277778	88.75
7	0.0204082	65.4
8	0.015625	50
9	0.0123457	39.5
10	0.01	32
11	0.0082645	26.45
12	0.0069444	22.25
slope =		3195.5
$\mu$ (calc) =		3.1955e-3 kg/m
% diff =		0.14%

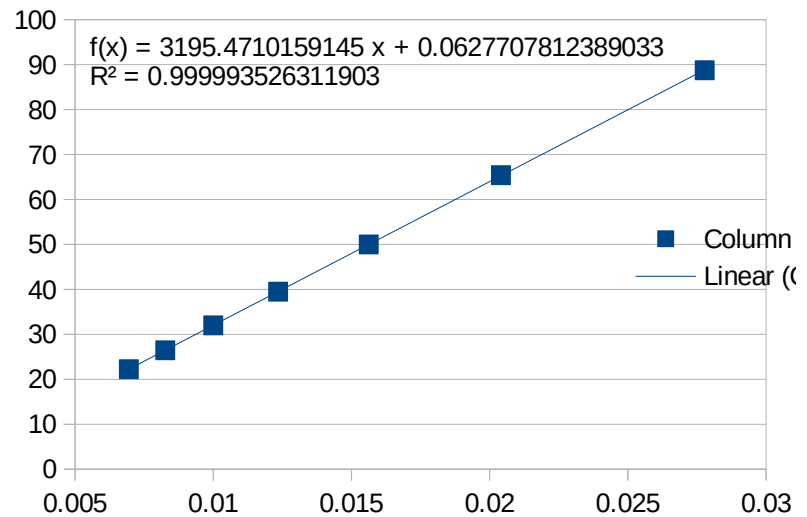
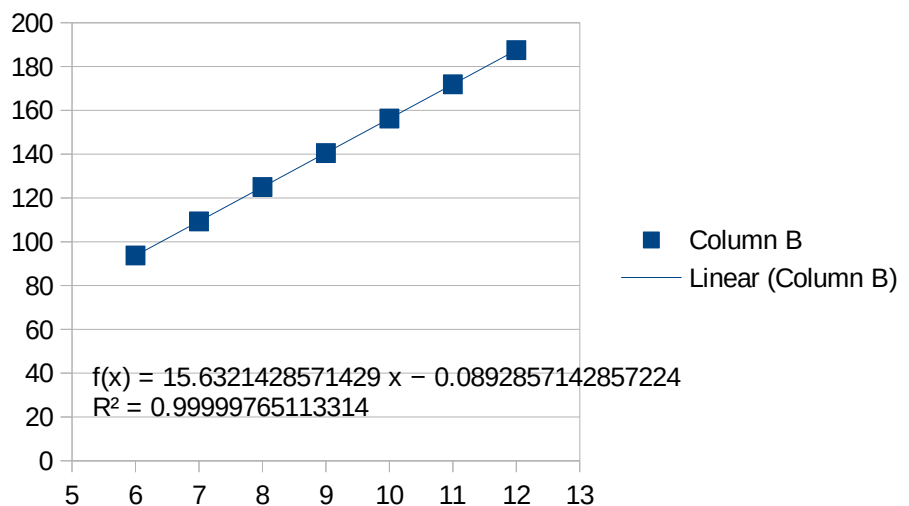
**B. Variable Frequency, Constant Tension and Length**

Table 11.2	
$\mu$ (sim) =	3.2e-3 kg/m
$L$ =	4 m
$F_T$ =	125 hz
$n$	$f$
6	93.75
7	109.3
8	125
9	140.5
10	156.25
11	171.9
12	187.5
$slope$ =	15.632
$\mu$ (calc) =	3.21E-03
% diff =	0.32%



C  
Column C)