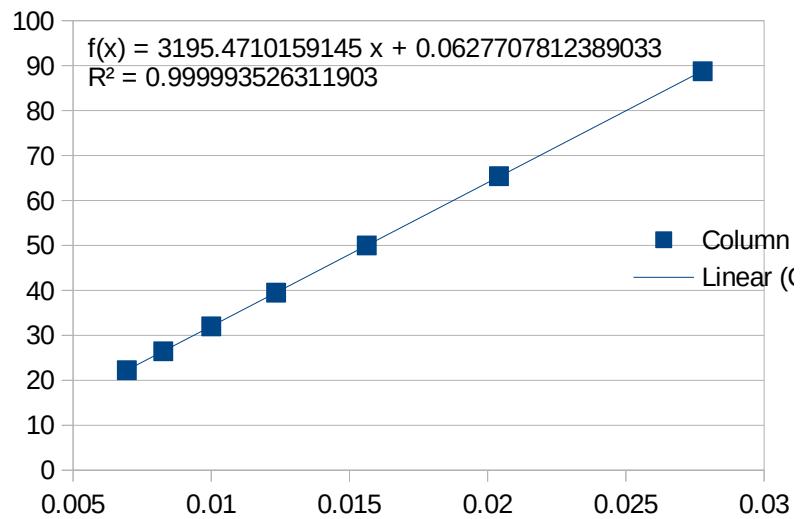


Student Name: Luke Le  
 Section Number: 51002

## DATA

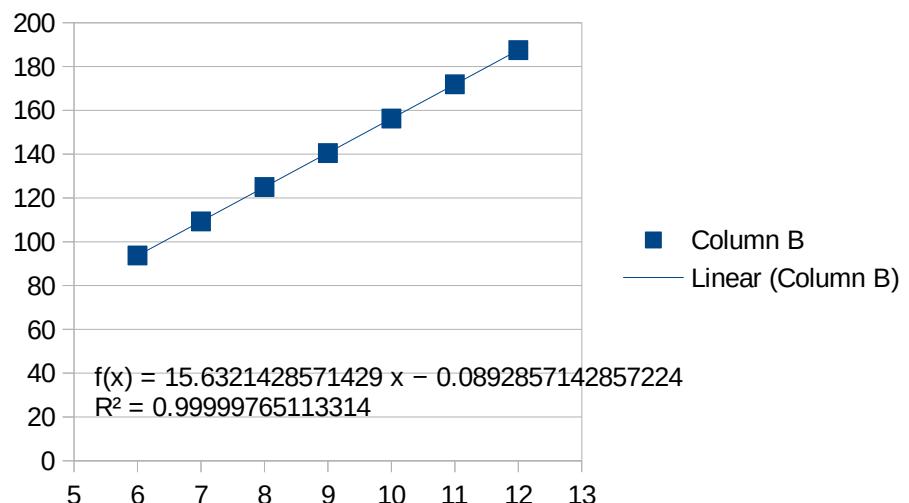
### A. Variable Tension, Constant Frequency and Length

<b>Table 11.1</b>		
$\mu \text{ (sim)}$	=	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
<i>slope</i> =		3195.5
$\mu \text{ (calc)}$	=	3.1955e-3 kg/m
$\% \text{ diff}$	=	0.14%



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

<b>Table 11.2</b>	
$\mu \text{ (sim)}$	= 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
<i>slope</i>	= 15.632
$\mu \text{ (calc)}$	= 3.21E-03
$\% \text{ diff}$	= 0.32%



C  
Column C)