PRACTICAL EXAM OF PHYSICS

A student investigating how the resonant length L of a loaded wire with frequency Fusing a Sonometer; used the wire of mass 20g and tension 2500N, then he related frequency to the length using equation $F=1/2L\sqrt{T/\mu}$,where T is the tension in the wire and μ is constant called linear mass density where

μ=m/L where m is mass and L is length

a) What is the frequency
(**2mark**)

b) Copy and complete the table below

L(m)	0.125	0.5	2	8	32
F(Hz)					

(**5marks**)

C)Plot the graph frequency against length
(**10marks**)

d)What can your about variation of length and frequency. (**3marks**)

END