Outline TWO changes that could be made to the experimental procedure that 2 (a) would improve its accuracy.

+ Using a Mavier mass

+ increasing the rate of change in The rength of String.

Compare Kim's and Ali's methods of calculating g and identify the better (b) 3 approach.

Kim's method is a better method for cakulating The gravity although gravity was not Found to be at the exact value of 9.8, it is a more accurate way of estimating. All the results are in a tlear table so There is no change of any defaults.

Calculate the value of g from the line of best fit on Ali's graph. (c)

3

last length 0.19 m

 $\frac{T^2}{9} = 2T^2 \frac{L}{9}$ (ast time massured = 0.892

 $0.89^{2} = 2\Pi^{2}X \underbrace{0.19}_{9}$ $0.89^{2} = 2\Pi^{2}X \underbrace{0.99^{-2}}_{9} = \underbrace{0.89^{2}}_{2\Pi^{2}} \underbrace{0.79^{2}}_{0.640}$ End of Question 16 $0.99^{2} = \underbrace{0.04012}_{0.99}$ $0.99^{2} = \underbrace{0.04012}_{0.99}$

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