Question 16 (continued)

Outline TWO changes that could be made to the experimental procedure that 2 (a) would improve its accuracy. lepter the experiment a few times at each length to gain an average males it more accurate ----of only for one pericol, perhaps measuring for INSTOAC then duiding the result at the end by the 0 period would ANE a more accurate Megnel result Compare Kim's and Ali's methods of calculating g and identify the better (b) 3 approach. Kins approach is more reliable as solving the value for a omotically is more accurate Alis mathed of the can prove to IM be noncervate and ult. It wais quicker to solve the problem nothernatically Qitt. time consuming and can be inaccurate due 910 ZNODVO 20 to maccivate measurement and draving. Calculate the value of g from the line of best fit on Ali's graph. (c) 3 = 12( .....

 $\frac{L(m)}{=(0.57)^{2} = 4.06} (0.65)^{2} = 4.22 (0.7)^{2} = 4.08}$   $\frac{0.08}{0.08} 0.1 0.12$ Alis line of best fit value for g = 4.12.

End of Question 16

Marks