Question 16 (continued)

(a) Outline TWO changes that could be made to the experimental procedure that 2 would improve its accuracy. mass and measure the time for 10 period ease the e the time by 10 to get one period (T) of string several times to ge length opeat one *t⊦e* Compare Kim's and Ali's methods of calculating g and identify the better (b) 3 approach. g. and former nothed is using 12 Ali's methor is . gro SINCE KIM USES 00 Calculate the value of g from the line of best fit on Ali's graph. (c) 3 $T^{L} = 1$ L = 0.241=20 ~ ••••• $g = 4\pi^2 x_0 x_y = 9.47$ - 9 = 9.47ms

End of Question 16

Marks