PALOMAR ID: 012 951187

## PHYS 230 LAB

LAB QUIZ AIZ

The Dradanclles lym way a cannon just by the of the Dradanclles lym way a cannon just by the start of Cententinople (145) 40).

It bad the langest range of any weapon of its time, capable of fixing cainability of 125 m/s. The capable of cannon way based from the pround at a capable of campact the farinantal and the ground was was labeled the effect of our resistance on the farinance land to change the framework promote an acceleration of -0.12 t m/s? (see diagram below), where t is the time measured from the gum firms where the flandance like the firm at a contact polabeling speed the flandance like the firm to directly towards it. The firm's coferation want to fire the cannon and impart the principal to pround the firm reaching the fun.

(A) The grange raf the Dagranalles from

(b) The distance the beninghty must be from the from

puter the commonwall is fixed if they are to be fit

by it is

P. 7 CI

is exalped as manner than thirty for evil (a) . The T = 2 M Wino = 41x 129x Sim 45° T = 18.045 - now, in haringable direction: dy = -(0.12)t -> Sdv = -0.12 St dy 17 Vp - V0 cos 49° = -0.12 [15] => Vm = 125 - (0.06) +2 -> Ax = 88.39 - 10.06) +2 - 0 === ( (88.79) dt = ( (006) +2 dt =7 = (88.39) x(1804) - (606)x(1804)3 B = 1477:1 m

Range of the Digardanelle Chin = 1477.77

