PHYS 101: General Physics1 KOÇ UNIVERSITY

College of Sciences

Fall Semester 2016

Section 1

October 21, 2016

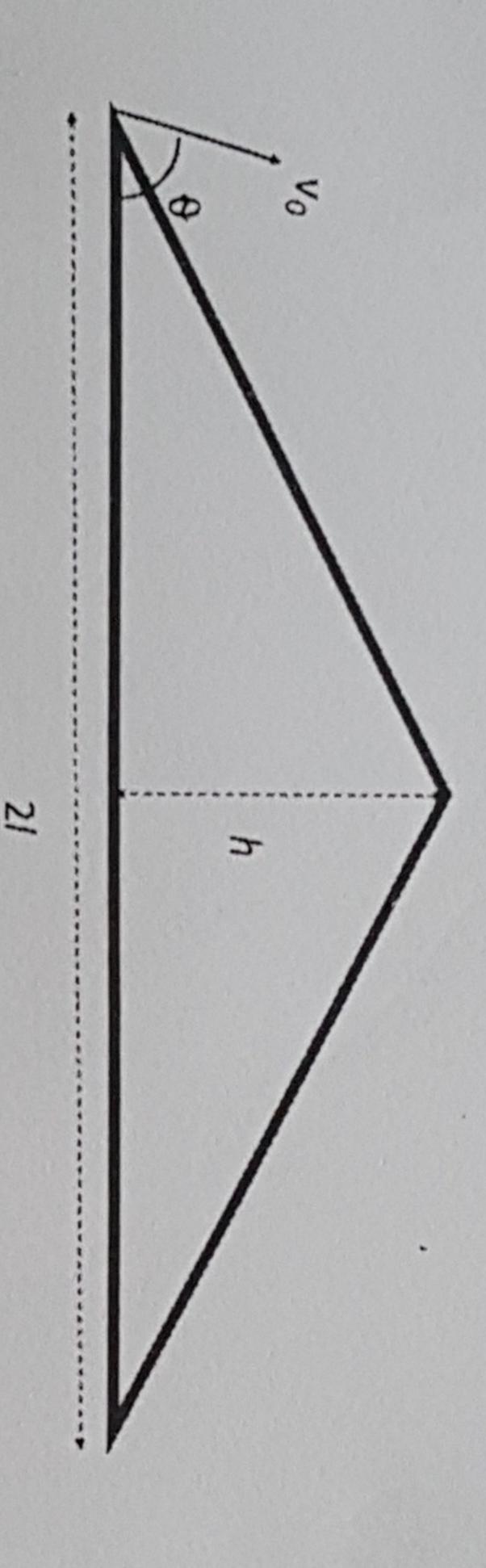
Closed book. Duration: 10 minutes

Name:

Student ID:

ignature:

it to angle should it be fi base diameter cannon is placed at the ase diameter 21. What is go over the the minimum muzzle nical shape of height h the cannonball if we v opposite side? At what and



at mose height hi

0= 50 - 8t - 9 t

h= 5000 t - 28t

m= 50 23m20

8 - 200000 (Josep)

Je Sesmeson

- ton 0 - 2h

-8=ton-(2)

- 26 W (4h2 L)

150 = 1 3 (4h2+ 12)

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KOÇ UNIVERSITY

Fall Semester 201

College of Science

Section 2

Quiz 3

October 21, 2016

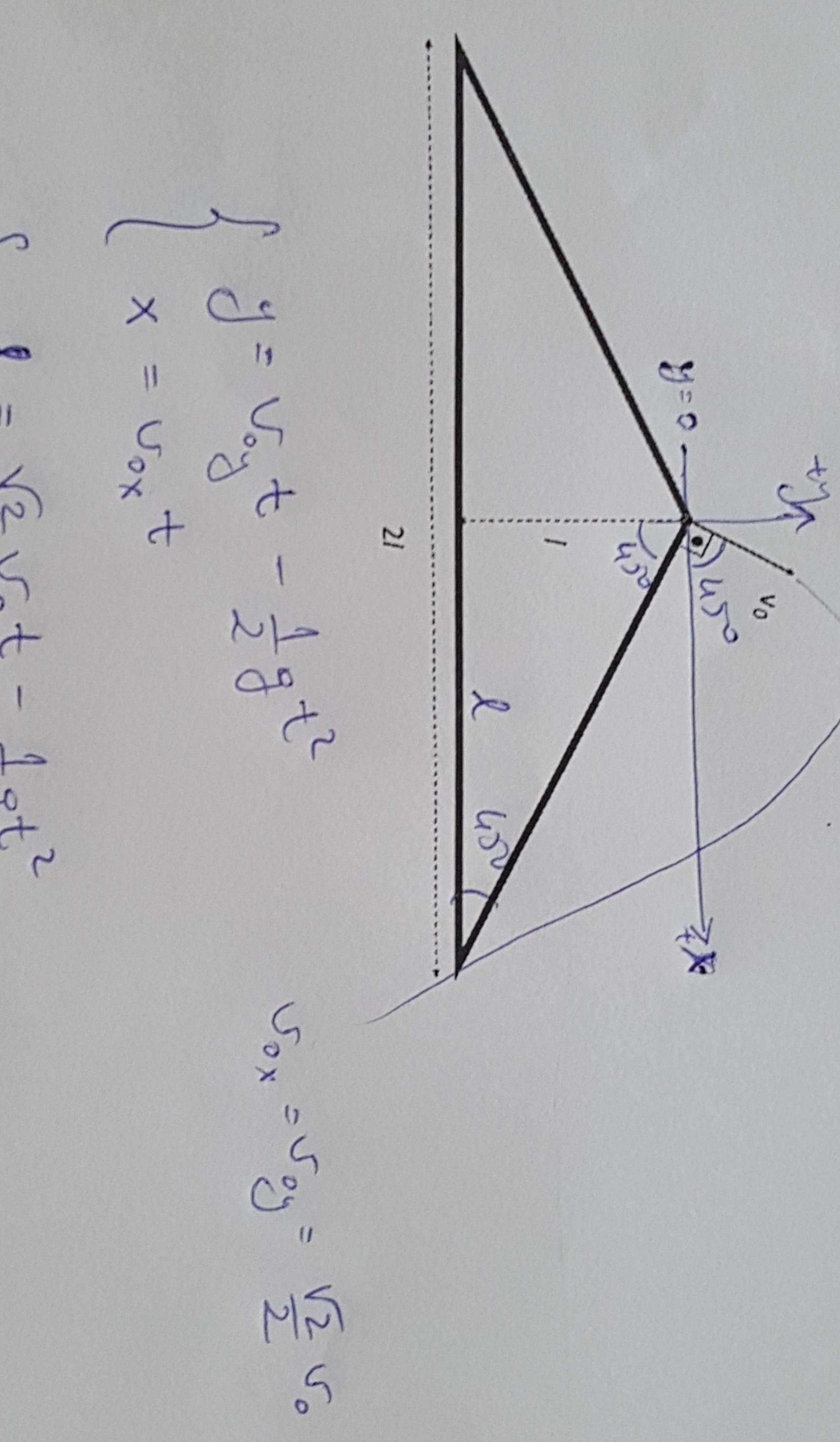
Closed book. Duration: 10 minutes

Name:

Student ID

Signature:

perpendicular to bottom of the h cannon diameter we want to hit relocity of the has a conical shape of height l and such that it fires in a direction e want to hit a point exactly at the cannonball?



most + in upper equation

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Fall Semester 2016

College of Sciences

Section 3

Quiz 3

October 21, 2016

Closed book. Duration: 10 minutes

Name:

Student ID:

Signature:

origin at t=0 velocity is co instant, where the e A is a positive constant. The $v_x=v$. First find x(t), and the velocity and acceleration vtwo dimensional trajectory given by $y=x-Ax^2$ starting from constant. The horizontal component of then then using the trajectory, fir vectors as functions of time. find y(t). the

$$\frac{dx(t)}{dt} \rightarrow x(t) = x + x + x = 0$$

$$\frac{dx(t)}{dt} = x + x = 0$$

101:Gene ral Physics1 KOÇ UNIVERSITY

College of Sciences

Semester 2016

Section

Quiz 3

October 21, 2016

Closed book. Duration: 10 minutes

Name:

Student ID:

Signature:

this at directions, passenger on a train travelling to the east observes that the raindrop an angle of 45° with the vertical towards west. On his journey back, I is angle to be 30° , again towards west. If the speed of the train is 20° rections, what is the velocity of the rain for a person on the ground? t the raindrops are falling journey back, he observes the train is 20m/s in both

relative

AVE

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