PT 1420 54/1 abos - see Slidos ~ 5% por night ~ Exams 25% each WK 1 ITT Tech 49 54 54 20 54 65 63 68 yerm Beself hit Velocity = 25 m/5 Angle = 35° Problem EX 2 Pg 120 a) what one Vx, Vy cos 350 = a/H Vx = 25 cos 35 = (25)(.119) = 20.47 m/s 17 = 25 sin 35 = (35) (.57) = 14.3 b) of component is how long bell in me t = 1/1 - 1/1 -7 -1 + NOTE: Vf = V, + at $= \frac{14.3 \text{ m/s} - (-14.3) \text{ m/s}}{9.8 \text{ m/s}^2} = \frac{24.6}{9.8} = 2.915$ c) HOW fox (Vx)(t) = (2.91)(20.47) = 59.6 (bode shows 59.9 - rounding)

percon Torgel 15 60 foot avan Problem Vy = 47 510 25 = (47)(.4.22) = 19.66 ft/s 1x=47 CK 25 = =(47)(.90) = 42.59 ft/5 Time in ill = At-Ar NI=VL+ gt $= \frac{\left[19.46 - (-19.46)\right]}{9.4} = \frac{31.12}{9.4} = 4.05$ 39.72 fls = 1.23 seconds Distance Traveled = (time in air) speed in direction of terret = (1.234) 42.59 ft/5 = 52.38 ft Xrcon falls short