Multi-Step Rocket Kroblem Givens/ Variables Launch Angle = 0 = 34° total Axe Arena Engine Burn Time = t, = 7.9s Net Acceleration OF PSCALFS a, = 6.4 mist 1,×, 44 Vertual distance travelled to max height from projectile = ay, Vertual distance rocket tails from many height = Amons, = 82 m Δ×, Rocher with purachute (Onstant Virtual speed: Vin = 6 mis Wind and Rocket with purachute horizontal speed = Vx, = 14 Mas Sugeral dictance travelled in our white accelerating = Axs. final velocity from acceleration = V. horizontal distance travelled by acceleration = Ax. Vertical distance proverled by acceleration: Ay, final height before purachute = 4 horizontal distance travelled by parachte = 1 x3 vertical velocity from the projectile = Vy, horizontal velocity from projectile= Vy projectile motion fime: t2 parachitle time = to SEPS 1) find fire I velocity from acceleration 2) Find diagonal distance movelled from V. 3) Find DX, and Dy, prom DX. 4.) Find Vy, From V. S.) find Dy, from Vy, 6.) Find 13 from DY2 7.) find the 4. JFIND DX, 1.) Find to using Vy, 10.) FIND DXD 1. J Find DX Final