Truen! Keg'd Findtance on snowplow Assup no au drag on blain snow Good assumption! cell speeds donatant, ejected in x-y plane Strategy: F= - du Vflow + projectile motin Estimate: ejectron velocity >>/ m/s to go 10 m roughly expecting thow onless

ST U (X) 120 => Ve= 100 m @ 1 = y du

Sample Prob Solnicant 0-25m= Vsintte-29tg => -2.5m = \( \frac{10m}{\cos 38 tz} \) \\ \frac{7}{2} \] -2-5m=10m tan 30- = 1961m/2) ti 496 t2 = 10m tan 30°+25m = 8.27m tf= 8.27 m = 1-68 = 2 tf=1-3s Vo = (0530 (1.35) = 8.88 m/s Fax - dw V(100) = - (750kg) (4.44m/ex+7.69ex) F = 3.3310 = 5.77 kOêy

Sample Prob Bruce Solucon Fret = Fin + Fout = (-750ez)+(-3.3 kDe, -5.7 kDey) Fret = (-3.33 kNex-5.77 kNey-750,Nez ground laterally By friction extenses (this will produce, a moment since its above road level! Discussing: Cool problem a bit long, #s land in the wo estimate and seem plaustiple. Downwood force will increase ver mal force and help w/ tradim