1) X = 4+ 8+ - 16+ 72=2+-4+3+43 V, = 4-16 t-48+2 25 = 2 - 8+ +3+ a = - 16 - 96 t Q = - 8+ +6+ Myrupibnocoup: -16-96+ = -8 + 6+ 1026=-8 t=0,078c 2) Dano ag = 4, an = 2 => += 4 = 1 = Jank A = toxue ar = 5 au t = vank, grungo an = as, mo 1-2 07 t = VR = 10 = J2 2 1,40 © \$20 → a 3) Dano Q=280/c Vmg 9 9 m=a+ka & Ma bico Ox: sind. = ma 1) I 3. Noomono F-P, 2-9 natives 04: cosd. F-mg=0 mg + E= ma => F = ma , F = mg ma - me => => +82 = ma = 1, mo. L=46°, rigenabureno Fn = cos2 = 0,1 9,8 .2 = 1,96 = 1,4 H

Ex, = Ex, + Q => Q= Ex, - Ex Q= mv2 - (m+M) 42 Q-? m V1 + M 25 = (m+M) W (2) = 0 m V,=(m+19)U=> U=m25 0 = m2; 2 - (m+14) - (m2,) 2 = m2, 2 m+14) - m22, 2 2 (m+14) - m22, 2 2 (m+14) = 25 2 mM 2 (m+M) Q = 21. pn/. 2 2 (m+17) pn/. 2 m+ M 5) Lano m=1010 1=450 \$ 684 6=20 Ju = Ort _ II 3. Hoamore ma=mg+N+F++ FTED Ox: ma = - mgsind + for - Emgn 09: 0 = + mg cast + M Fren = Jumgcosz F7 = m(a+g(s/nd+ucosd)) no murray l A = fil - m/ (a + g (sind + choss))= = 60 - 2 (14 9.8 (\$ +0.1. \frac{1}{2})) = = 20 (1 + 2,8 · 0, ++) = 1 +0, 92 Dac

