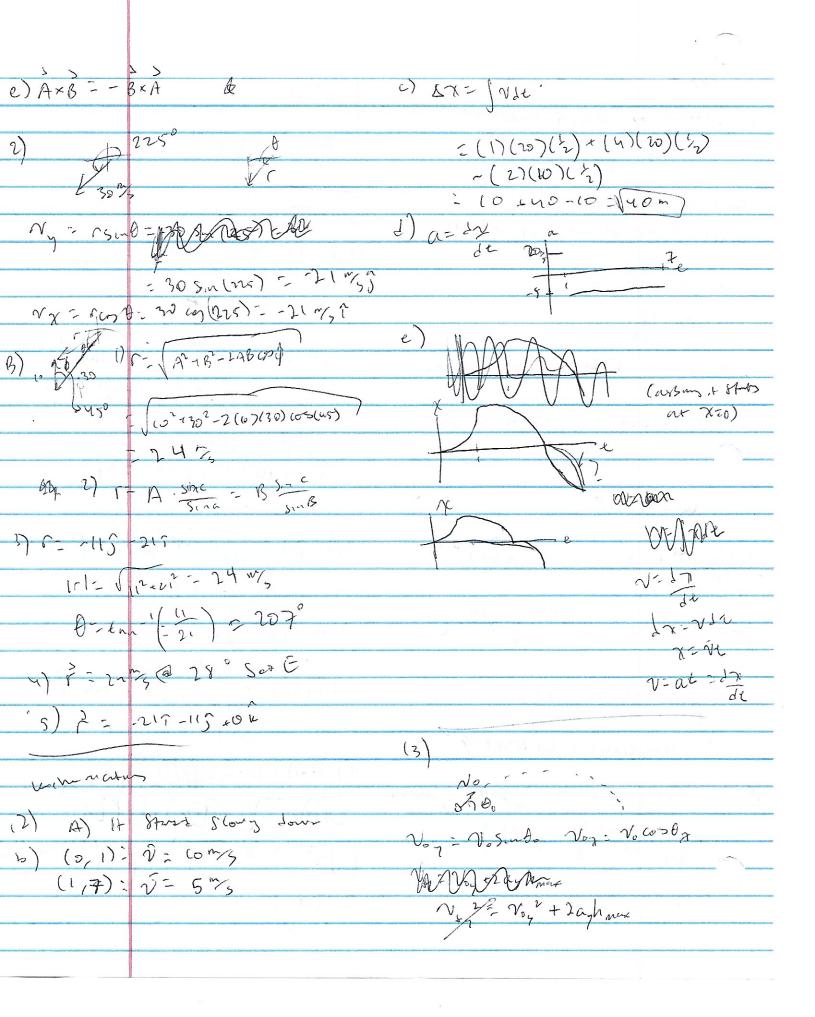
Mark Devices 1-2 Zutro. aent be the de i. distant of Nelouin -> aculiation -, on ent-bettl S day of Jan) tole - 2 rase efour of over Me dors and -> mh of chy of velocity) A=(2,-3,0) = (-4,2,0) momentin -> Com a) A (B = 21+3 6 10 1 [A+B] = [(-2)2+(-1)2 @ tan (-2) Tom -> land of che of momorn - 2-23 827° b) A-B - A+ (-B) integral 16-37-1W = 61-57 [A-B] = [102)+(r5) (a tun-1 (-6) 3) - (2xm + by () = max m-1 + bux (-1 = 7.8@-39.80 67 +67 dn = 67 + 2 xxxx c) 4 18 B= (2+(3.-4)) 1 1 (-3+2(3))5 [A+3B] = \(\(\(\) \(b) & (acomt ib smut) = 10.4 @ -17° -- am ginne + bu logktly. d) A.B = B. A = WAR. LYNA @ a contes sinke at = a sinnt- baskete (12 -52) (Vate 24) cl = (1) c) = (ae h + be let) (\(\sigma^2 + 3^2\) (\(\sigma^2 + 2^2\) (= \(\frac{\tan^2(\frac{2}{3})}{2}\) + \(\tan^2(\frac{2}{3})\) = mae - bke



1 - 26 Sind + Jro25m2 8 + 29 h Noy = 2 ay hara = 29 hara Mmax = - V2 sin B. (4) A) 50 75 29 m 6) R-Voyt / 1- Voytaty from (13) R= -2 Vo2 S. n & capt t= -2 Noy = -2 No surt =-2(507/s)25/40 cos 40 n = Voyt + ayt" R- Vocoso, -22051nd Nf2-Nort200x Neg = Troy 2 2 29 89 -- 2/2 Sindiose 6) Nat = 07=R t: B = 12 , 220 m c) h=-2~6 snd cord a) hys voyt+ zayt2 = 5.7 s Maximize Si- Jest OLG 290 Sold Ashand = (50 % sen 40)(5.7,5)+ 2 (-9.737)(5.75) - 12 4.0 m 1 = 39 m This subject is rest when of At d) h_η(ε) = N₀, t + 2 ay t² = 30 m D) h = Noyt + 2 cy t2 beingsongt it gtr-h =0 t= - Vay + (Voy +4-30 m tay -(505m40) + V(505m40) -4 4 (30)(-9,83) 35 t 2 + Vo Sindt -6-0 - -34-39 -2000

i) uniform cerember metern I, I (B) d) if it barry ching the wan, 3) I - Falsi, chynn durke II - Spub of when ?? If D=450 hours = To (sin B)2 = - (50 mg)2 (Sin2 (45°)) - (4 m 4) (c) -along 5) are Nother are if hax = 300 A = 290 $t = \sqrt{\frac{2Ax}{5}} = \sqrt{\frac{120m}{5}}$ (f d-20 R- - 2 No2 Sund coso 6) N. - Votat No 12002 grand early Z, 0=45, R= 255 DX = 275 2 2 (9075)2 (4.075) 2 ay 12+ Noy t - 30 m=0 7) V. Johnt Vi-Norraby -4-9+2+50 sind t -30 ~ 50 Nen' = Nog + 2aby 5000At=220 m -4.9 (20 m) 2 + 50.220 m. Sut = 30 50 cst = 30 Suit (-94.9) + 220 ton to = 31 typ= - No SINO testy = -270 sud 2(10 mg) su 30 -9.8 mg P= 44.8, 53.0) - (.) s (b)

a) Vez-Noz+32m3 7(3)= 27+624= 137m (6) Neg-Nortant ~ (9.6mg) (45) = 39.2 mg Q A) (1) Nutre (30.22+391 = 50m (C) B) (1) c) (4),(5) lo) 0) (1) - (1) 8(4)= 7+10+-6+2 N(1) 7 (t) 2 10 - 12 t vita v(h)=10-12(u) =-38 % (e)? (5) aler- 6t mg No= 2 mg x = 4n A) Ma) - (aut) de - florde = 3t2+U V(t)=3t2+2 3 3022=143 t2=4 (t=25 B) Yeth= Svetlt = g 3trade ころはまれたべ (こからい み(せ)こも3 もしてり