Applying Newbors has /7 Feb 8, 2017 Phys 214 Static Egulisium - F= p; a = p Object at Rest = Egulissim Dynamic Egulisium - F + &; à = &]
object @ constant Velocity Both Cases: EFnet = p-(Fret)x = Fix + Fixt...=0 (Fret)y = Fiy + Fzy + ... = Ø EFX = max = of & EFy = may = 8 Steps: Startegy 5.1 1) Check if a = & Then newtron ato; apply If so, use Newtons Second law 2) Daw a free body diagram to Show al 3) Defermine which Forces need to be solved for you need one egonation for each unknown 4) Solve 5) Check for correct units, reasonasility 6) Write a one senture assure to ensure your answer addresses the greaten

Applying Newtons Phys 224 Fe58 2017 Newtons Law: Objects @ rost Sty Crast Newtonshaw Z: F=ma objects in motion, Newtons Law 3: for every action there 15 an equal is opposited The Egylibrium: not undergang acceleration E Fnot = \$ mà = Weight Static Egylism SF=-mg+n=p N = 100 mph carlipura Wf = 100,ph 京一月.

tc5 8, 2017 Phys 214 Example 5,3 Imagine a rod on a frictionless skeet of the 4fted by a string. If the rod is at string from the horizontal surface of the ? Stpl: a= &? yes Step ?: Free body dlagram (s) Step3: Solve Se Eguators Step 4:45 consined Since there is no friction, so, The string needs to be I to the Ice

FES8 2017 Phys 224 Example 5.4: Tension towing a car GIVEN! M=1500 Kg a = Ø; Steady Vilouty X=20° F4= 320 N T= ? Draw Free body Diagram EFx= Ø=- f+ Tx ¿Fr: - 320N = T cos(26) $\angle F_{y} = \emptyset = -m\hat{g} + \hat{n} + T_{y}$ 340,5N= 320N =T SFy: mg=nTy 1500 kg 9.90 m/sec = n + 340,5 sin 20 N 14,715N=n+116.5 14,5991=n The tension on the rope is 341 N to overcome the force of Friction of 320 N.

Applying Newtons 2 mus Thys 224 Makins This Country Great With golf g= 46gras FC = 0.0020 N V =3m/s Will the golfer make The country great by nachaste Foma tremendous shot. = = a = 0,0020 N 0.046 kg Vars = 0.435 m/sec 2 x1=0 m J= Vi+2a(xf-Xi) xt = } Ø = 3 m/s+2 (0.435 m) (x4-4) V:=3 m/s Vg = Ø m/s. 3 = 0,87 Xc à = 4,35 % = 2 9 m/set - Xf = 10.3 m The look of Success! Yes the country is great again

Feb 8, 2017 Phys 214 Applying Newtres Mun w/Phys-ElevatorStyle Was the elevator travely m=70kg V=5% 9 = 9.81 Scale = 750 N @ stop of Elevator $\Sigma \vec{F}_y$: $m\hat{g} + \vec{n} + m\hat{a}_y$. 64NV. 686 $m\hat{g} = \vec{n} + m\hat{a}_y$ $\sqrt{686}$ 1 N=m3=686N 686N = 750N + 70 (-ay) -750+686 = ay 1=5 m/s 0.91 / = ay Uf= Dm/s a-- 0.91 m/s Movingdownward So, which way AD clevator was made abroad makes the relocation Very bal.

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Dylan: Good Refrester

William: Good for have a good classmate

Loreli: Good refrester

Tom: Good review;

Brandon: Good, no worres

Treg: Still needing book ...