





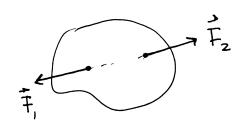
	
CHATTURA I	
* MAT. torry. Ycrobus pabrobècus: $\vec{F}_1 + \vec{F}_2 + + \vec{F}_N = 0$ ** ** ** ** ** ** ** ** **	
KAK CHAGOIBETS earl? - MAPAMENOT PARM * TPENFORMUR **TPENFORMUR **TPE	
· Tperfrontine A A+B.	.
R=F,++Fn - palmogenishyrayas.	
Ficheronarriae lai merène cun. Marille	
Bonpoc Torne le prévidence, génération 3 agunosohre no magyino cura.	
Bonpoc Torne le prévident, génération 3 agunouchre no regyno cure. Konoù pron retagy runn? Blegerne upo benogra, upoerym u 7.9.	
Cucrema totelle 1 1 Totale, genstra Corale patho hypos.	
Assaggernasser Crokum lee cure mongrunace pobuoyerichymours.	
B reskon queces one subub. been owner!	
Demoncepayue Depopulses resolue. R=0, no suborbjerce!	
position - depolardin, brasseries.	
Magent Sygam pacem. Tentaco ATT. (Pacca. nestagy Todaum)	
Barteni boupoc & tge torre upmokleme palnogeistjourer?	
Alex reoretigen. Hago arcusur - reopens.	

Headquarters

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Tremona

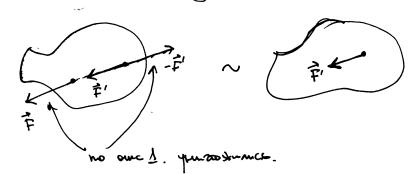


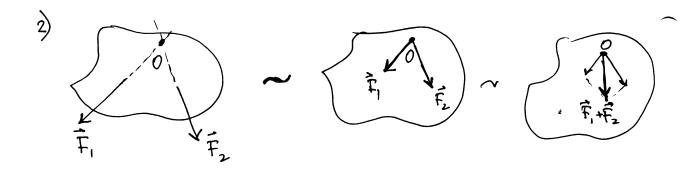
Econ a ATT upwarkenen 2 nemperaneumore cuae, to

ATT b palnolecus +. 4.7.7. verga

- . cum no mogynto palme
- · uporcha. no many
- · MAKEN Les gues AMMILES

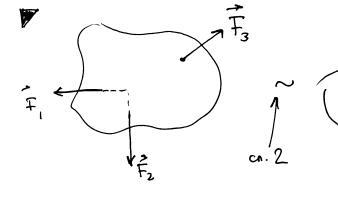
Comple) Cury moxino gloran legra mune generales.



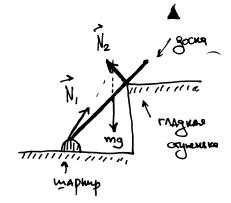


RODEMA O THEX CHARX

Econ ATT le publisheur man non généralien 3-x te-11 cm, 70 minum une généralie réprésentes le agrait 407me.



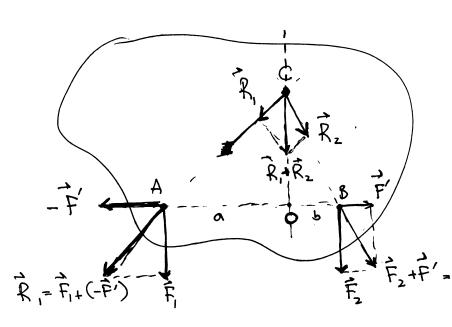
Ho no one. 200 2 com so





Мы разбранись с силами, пересеногочучника в ноше.

Yo novièr Il cun? Kon ux consoliero - rgo rome ymoxenne?



Dobalum nopo Fick KRI,R2 mm

 $\vec{R}_1 + \vec{R}_2 = \vec{F}_1 + \vec{F}_2$. Nums generalise reposer repsy (1) 0.

KAR eë orpegens. Uy hogosua

$$\frac{F_1}{F'} = \frac{CO}{AO}; \quad \frac{F_2}{P} = \frac{CO}{OB} \Rightarrow \frac{F_1}{F_2} = \frac{CO}{AO} \Rightarrow \frac{F_1 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_1 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_1 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_2 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_1 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_2 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_1 \cdot a}{AO} = \frac{b}{AO} \Rightarrow \frac{F_2 \cdot a}{AO} \Rightarrow \frac{F_1 \cdot a}{AO} \Rightarrow \frac{F_2 \cdot a}{AO} \Rightarrow \frac{F_$$

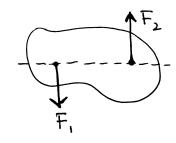
T.e. pabrogenes byona pabra + ++== , a roses ymaxeme Bonpoc Babuna m 100-mayge or F'?

Oco, uporogrues repor CC - temporare

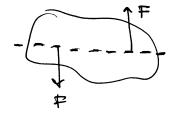
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A non Sur, eem F, MF2? Charact in sur mooking?



toma upunaterne Syger sa upegenorm aucreum aun. (pagnostual Britisguo anny no 2 acr.)

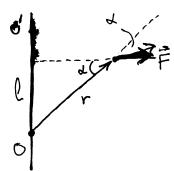


900 he personant.

Nume genalme R yxogus no Escustreznoca Pahrogenoshyomen y napu

Seno, up napa cun Eyger Granjour ATT.

Du xapatreprocuer 2000 branjeme blogues nouser Monena



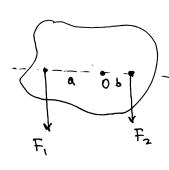
M=rxF=r.F.sind==F.le

MOHOUR Hampalren no magning "muondo a" (on the magnino upoloù pym)

MONEIN - 200-00 byoge brought (ears mogyan h Hanpalieme)

Digg varo homens crustaerce orhousenous our 00', nousermy l'ogunous que 4 PEOO' Mp (F) = const ken where our. Benienca k charene

hapanne when x cur. Tan Somo F. a=F2.b



Fro - palencelo monerolo cun F, u F2 ornocusembro rocus. (sorque, ocu, i-pas uposogue reper () 6)

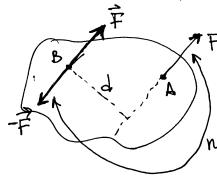
Moment happer our no oupegeneumo M=F.d, rge d-prosouve nekgy anom,

Mapa cua xaparaphagiera tomas monenson, 300 - egunctlemas xapavepuerva.



Nenna nonlegenme

Boards cura, upmoklumas l' tome A, sul toi te cure, upmoklumoù l')B
u nape, moment untopoù palen mohenza anno orn. (.) B.



napa cur a mobilition Fod

Odyna ycraha polnobecus

I cert cum $\overline{+}_1,...,\overline{+}_n$. Brotepen upont. 40 my 0. Nepeneciem ruga bee cum. No aberra happy, mohene n-par polen $[\pm F_1 \cdot d_1]$ Pay cum b ognoù torne, to un makuo crokua, nongrum $\overline{R} = \overline{+}_1 + ... + \overline{+}_n$. U cymragana haber $M = \pm F_1 \cdot d_1 \pm F_2 \cdot d_2 \pm ... \pm F_n \cdot d_n$

Kor men graen, gas palnolecus reodrogues R=0. For replos yearbe. He octaves eige naper, one bygge league teno, evan the M=0 in the lapse yearbe.

Headquarters

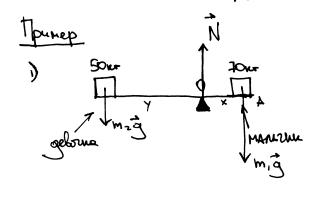
Hogil Kim Memorial Building #501, POSTECH, San 31, Hyoja-dong, Nam-gu Pohang, Gyeongbuk 790-784, Korea

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TARUM OSPAGOM, MOKRO MICERO YCROBIE M=0 gra MoSai upoysbonerad town - tol 1 rosopes yacher.



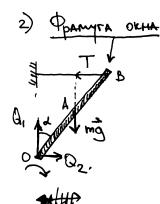
$$M_0 = 70 \text{ m} \cdot 10^{4} \text{ m} \cdot x - 50 \text{ m} \cdot 10^{4} \text{ m} \cdot y = 0$$

$$3x = 5y$$
Mohera ott. (.) A:

$$\left\{ M_{A} = N_{X} - m_{2}g(x+y) \right|_{=7} M_{A} = m_{1}gx + m_{2}gx - m_{2}gy = 0$$

Déscabraement, noment me johnent et toum, em ZF=0

= 1000000 (m1x-m24) a



Haingen eury peaseym la anope openyou. Cyrona cua pakue nyato. Q+T+mg=0. auxanted auxan D Zuarus, ho kartopi och toke.

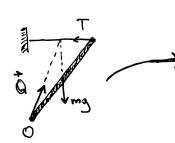
No lynuam: Q= mg No repropuesan; Q2=T

01=42, OB=L

Ypalmenne monentol orn. (.) ():

mg. E. sind = T. L. cosd (=)

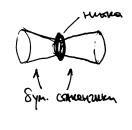
T= mg. tgd

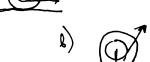


T.e. Q = mg, Q = mg tgd

→ Kyga hompulsen &? Mokho enje no +. 0 3-x cunex. Novemy a way, he book apper? Novemy 100 one maculmae.

Денонарация (S &S exp., 1.14)









Yeur Textecon

Mb ymeen canagalosto 2 nopheroraune care; a 200 eem

Pacconothum tango Jagony: Mco eco creptous

Yeary palma palmageinsbyona a le nauoù

Total one munoxens?

R= F1+F2 = m19+m29

no upahay crox. 2-x 11 cm, navyour: mig(x12-x1) = mzg(x2-x12)

R12 4 m3 R123= R12+m39=(m1+m2+m3)9

Oners chaken gle 11 curs: (m,+m2)g. (x123-X12) = m3 g (x3-X123)

 $x_{123}(m_1+m_2+m_3) = m_3x_3 + (m_1+m_2)x_{12} =$

young Textern (um yours mace)

There, 400 ecrus macces & 2d, to

Myco en rétent ceptent e naccama m, mz,..., mn. B vaixoù roue ero hykno nogrepero, rosso ou som le polusteene? No hospoemio - b y.m.

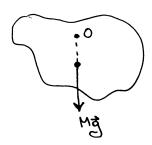
Boupoc Tge nexoguerce y.m. ognopognoro creptus grunoù L' Выгисты (поможние формунами, (разбить на нисто кустив)

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Bozonën reno. Nogleon ero ren, 2005en roma nogleon Sura beme y.m. Ozebegus, 200 Tens Syger b palusbecum. Econ revejo bross goyeyo rowy nogleca, so wome repecture me some l-x momens & get G.h., nomony on return na nation years.

Bompoc Moxer in years mace nexase lie tena?

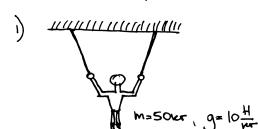


Демонскращь (фан) манит и девогла, различи I yempe Mace (S&S emp, 1.15)



← rge y.m. h horerny or hero bæ zabuena?

Heckonoro bonpocob upo pabrolecne a sua.



Cura hatesterme namaria.

 ω) > 250H

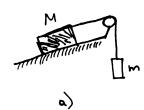
8) = 250 H

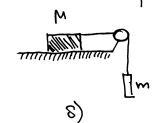
b) < 250H

Kak coothocates helygy coloi chan hotaxenne & nouse 1,2,3? 4) Demonstrayus?

Sor I 500r gunamoment o

3) Continue cust noteteure musei le soux cayerex:





- i) Ta>Tb
- Ta=Tb
- 3) Ta 2Tb

Homepage: http://apctp.org E-mail: sec@apctp.org



Asia Pacific Center for Theoretical Physics

Cura openie

pone cun takecan u peaugun oupph, euje Sulver enne openul

RONDR cross ferms (HET WOODENEZ. (ees wpock. Trygunce not reis

Ocholne cloudy

- 1) cura openie novail ne motter Esto Somme new Fmax.
- 2) Frank (up 14-poi harmaerce mocney). or rero jobour po 3) For currey. 11 to,, For current sp. N.

3 About in For or manying nowaxer ?

Osharo Ocac1

(585 exp., 1.17)

HACHMENO pagnos nomzecs bo moneroux.

Paccytiquemes upo permetare mongres nonanta и природу силь трешия.

Oyenna mongage house

PACEMOTPUM NUT Shore COMM HA COTARU. Curo OTRABUNDANIMA ~ 5-10-9 H/BOTOM. 5.10-3 H. # aronal = 10H => Fra cura oscuember N=mg- 10H => # aronal = 2.109

Marian moyage: 4.10-20 n2.2.109 = Paguje 500MA ~ 2.10-10 M => SN 4.10-20 M2. Kysume under ofster ~ 125 cm³ => neogogy ~ 25 cm². morgage ~ 8.40 cm

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Mokho pacchappenboso cum sperme non recomo censo peakeyum onopia.

Banessum, 200 Top EMN => tod EM

Tyron replante, norga = ".

Mokno permiso recuentro zagez, veroga y yerobin paralecus.

N Q Fra

npu vavon your d'unitére cuonexerme? $\hat{Q} = \hat{T}_{pp} + \hat{N}$

Pabroleane: Q no beprisson -> you opens colleguer c d.

=> n= tgd.

Dografi chacos, Sonee Johnane Marie.

Fr = mN = mgsind N=mgcosd =7 m=tgd.

B Compared to Marie (1)

Necrouse AB nelecone HA neuro brien h
moster nognetice renden, ne nepywas palnobecne?
K-Th of. M. M M2.
M.=tgd,
M2=tgd2

OGRACIE, le tre-pois restor rumm gencebre cur peausum ongen

NO T. O 3-x curax Hyxno, 275 on cura 40xec nonegana l say obracat. Kpainer torna - P.
Untepecno, 200 or macch repoleno valez he zorbucus.



probecus

Ognoreproe glusteme.

B crysoe a spermen un layer, no een nourours Ердеон поедет. Но како он поедет? С успорежием.

cusperure |

meta menerma cuopocar.

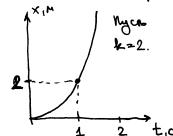
$$Q = \frac{V_z - V_1}{t_2 - t_1} = \frac{\Delta V}{\Delta t}$$

Yen renouse unsephon, ver mouse.

 $a = \frac{\Delta V}{\Lambda +}$, $\Delta t \rightarrow 0$. Anahorus co enopocasio: $V = \frac{\Delta x}{\Lambda +}$, $\Delta t \rightarrow 0$.

Pacchogun upunep myon woopgunota menseros co bpeneren nex

Yorun maior anopoco " y compour l' moneur lipeneur 1-10.



$$V = \frac{X_2 - X_1}{t_2 - t_1}$$

1)
$$\ell_2 = 1.5c \Rightarrow \times_2 = 2 \frac{M}{c^2} \cdot 2.25c^2 =$$

$$V = \frac{4.5m - 2r}{1.5c - 4c} = \frac{5 r/c}{1}$$

2)
$$\pm_2 = 1.2c \Rightarrow \times_2 = 2\frac{M}{c^2} \cdot 1.44c^2 = 2.88 \text{ m}$$

$$V = \frac{2.88 m - 2m}{1.2c - 1c} = \frac{4.4 m/c}{1.2c}$$

3)
$$\pm_{2} = 1.1c \Rightarrow x_{2} = 2 \frac{\text{M}}{c^{2}} \cdot 1.21 \frac{\text{M}^{2}}{c^{2}} = 2.42 \text{m} \Rightarrow v = \frac{0.42 \text{m}}{0.1c} = 4.2 \frac{\text{M}}{c}$$

4)
$$t_2 = 1.01c \Rightarrow X_{22} 2^{m/c^2} \cdot 1.0201c^2 = 2.0402m \Rightarrow V = \frac{.0402m}{0.01c^2} = 4.02 \frac{m/c}{0.01c^2}$$

V= x+1+2x+18+82-x+12 = 2x+1+8. Horga 8+0, 0 V -> 2x+1

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UTAK, bonecuroco, no cem x=k.t., to V(t)=2k.t. A uno macriit yempenne?

To the cause, nonposyer hairs a la moment lipeneum t,=1c.

1)
$$t_2 = 1.5c \Rightarrow \alpha = \frac{v_2 - v_1}{t_2 - t_1} = \frac{6 n | c - 4 n | c}{1.5c - | c} = \frac{4 n | c^2}{1.5c - | c}$$

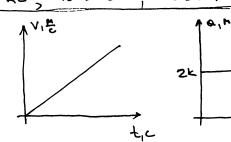
2)
$$t_2 = 1.2c$$
 => $a = \frac{4.8 \text{ M/c} - 4 \text{ M/c}}{1.2c - 1c} = \frac{0.8 \text{ M/c}}{0.2c} = 4 \text{ M/c}.$

3)
$$t_3 = 1.1c$$
 $\Rightarrow \alpha = \frac{4.4c^2 - 4c^2}{1.4c - 1c} = \frac{4mc^2}{1.4c}$

4)
$$t_2 = t_1 + 8$$
 $a = \frac{2\kappa t_1 + 2\kappa 8 - 2\kappa t_1}{t_4 + 8 - t_1} = \left[2\kappa = \text{const} \right]$

Uthe, ein x=kt, to x=2kt, a=2k.





YEAR HARROHA? TAHRENC?

Boupoc A uno cenu x= k.t3?

a moureume – pabuoycuspennes gl-e $(v=a.t, x=\frac{at^2}{2})$ a=o – pabuonepnos gluxeume (v=const, x=vt)

a now. u 20 - préhosorignemos al-e

Banobion Sygen pacernopologio cayon nocommoro ycuspenia, a = const.

$$\frac{O \text{ payraphocrax}}{O \text{ payraphocrax}} \qquad V = \frac{\Delta x}{\Delta t} \Rightarrow [V] = \frac{M}{C}$$

$$Q = \frac{\Delta V}{\Delta t} \Rightarrow [Q] = \frac{W_C}{C} = \frac{W_C}{C}$$

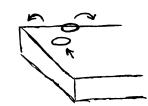


Doguepnor gbuxenne

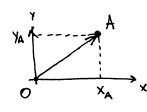
Repensement na mocnocan - toxe beisop (non u cura).

Bruser un glussenne b. ognon Hang. na glussenne b gpyron! Epocun namen rophydramous - nek chajene mexey coloù lepr. u rop. chaper? Vx ~ Vy ?

Demoncropayus (S&S exp., 1.23)



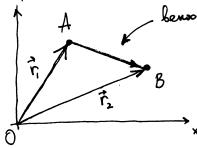
Tollin cutero



paginic-benoop. (ne torono bementa, no a marpabrence)

Druha- magne pagne-lemopa, r um |r| = xA+YA - XA 4 /A. - grund upoenying it has our XA 4 /A.

torns hepenechana



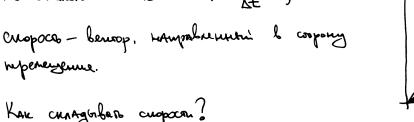
benoop repensement $S = \tilde{r}_2 - \tilde{r}_1 = \Delta \tilde{r}$ (onpegenenue)

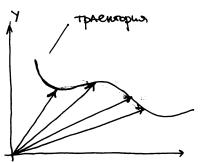
\$=0, XOTA TOURD WPOWNA

Moxno unagubor recuentoro repenementi

No anaroum c 1d $\vec{V} = \frac{\Delta \vec{r}}{\Delta t}$, $\Delta \vec{l} \rightarrow 0$

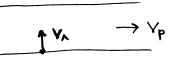
repeneene.

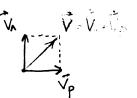




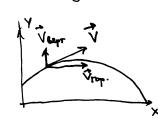
KAK CKAAginbar cuopocan?

Crangeprosión uponep - rogra a pera.





Nocuertyey curpoca - beneap, notine packagealors us coardarrongue.



maxuo robopuro o cupoca no beprinam (vy) u no ropyotoram (vx). U pacconarpulosse glutenne regulorous.

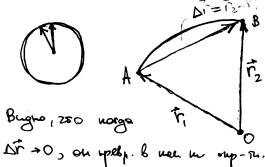
Youpenne & 2d

No anavorus $c.1d: \vec{a} = \frac{\Delta \vec{v}}{\Delta t}$ Hampabaens l'espony yaeneux cuopocris.

Успорения пожно симодывать или и спорости. И чоже распладывать на сост.

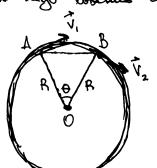
Mpunep Blowseems no oupytus can. cuopocaso.

(Cuareno - gonger, 200 VI F)



ТАнин бородом, иттовенняя спораго немр. I то (по несет. и окр-ти).

Teneps hago boochus a ycupemen.



Uneen nogotime DOAB ~ V, -V2-DV $\sqrt{v_2} \vec{V}_1 = \vec{D} \vec{V}$ (You u gle cooponum) $|\vec{\nabla}_1| = |\vec{\nabla}_2| = V$

ALNO (0~0), TO AB & AB = VAT

 $\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} \Rightarrow \frac{\sqrt{2}}{2} = \alpha \left(ecm \Delta t \rightarrow 0 \right)$



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Non glossem no oup-on yenopoure ygodino poeur. na 2 cocr.:

prendintropho badand r (yengræpemæenia) uso nonpum. CHARLES LONGER

Populary gas an un torres

Ech cupoca ho magnito nocasenta, to oz =0.

Boupoc 400 genars, een glouteme no upuloù?



Kaxgini yzación upuboù nokus uputangus onlyxrocomo. Hend sen onbaknoca

Y tomai enprytuococ Eyger Mathematica pagnya h - pagnya upulayuta upulai. Ean zoon yongeme le rome u de compour - mottho haith ero: R = /a.

Пример) Ступии на орбита Земи.

высота = 200 км, ножно стиять, го радине орбить г Кт = 6400 км.

Период обращения: Т~ 5000 с (полюра часа).

L=2+R

Karoe youopenne y currento?

$$V = \frac{2\pi R}{T} = \frac{2.3.14.6.4.10}{5.10^3} = 8.10^3 \,\text{m/c}.$$

 $\alpha = V^2/R = \frac{64 \cdot 10^6 \, \text{m/c}^2}{2} \approx 10 \, \text{m/c}^2 - \text{ker}$ yenopenne desognos negenne.

"no aber" « nob-m Semm, y-za moro y mes upyroba

Pagyer ~ 100m, v~c=3.108 m/c. => a=1015 m/c2 >> 9.

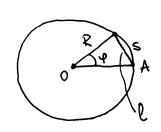
To ear, g notro upenespero no apabrecuno a an.

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Hecushoro omegeneum que glureum no expytnocim.



Noroxeme rown noxuo xapanzepyoloro ymon y

Meinas cupoca: V= lin at (nepereuene)

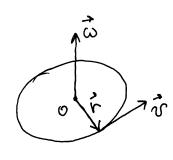
Yrnolae cuopaca; w= lim st

HO S=R. Dycl sem Dy manerumi. =>

Torga $|\alpha_n = \frac{V}{R} = \omega^2 R$ Econ V = const. to $\omega = const.$

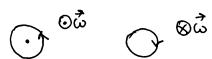
Euje noe-40. Nepung ospanjenus $T = \frac{2\pi}{\omega}$, racrota $U = \frac{1}{T}$ [T] = c, [v] = 1/c = [vs.

very palus ornoweme youophimi Bonpoc Boissanu, an ~ R um ~ 1/R? (Bonpoc) gus voien nopycem na paccir. R/2 n R or yempa? Ytrobas chopaco - benjap?



Hytro Kon-10 xapansepnyobas harpabrenne bangeme.

Hampabreture no upabusy upaboù pyru.



Outor a lepargemen 1797s no unive - mottro m chegen yangeme c cha netatema?



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DUHAMUKA

Xapauxepicaniu gluteume: KE, V(t), L(t). You orleraer za un yearenne, novemy our nomerorce?

Pabroleene: $\vec{V}(t) = 0$ $(\vec{a}(t) = 0)_3$ $\vec{r}(t) = const.$ You make holeon y pabroleone? Happymenne ero yearshim: $. \vec{Z} \vec{F} \neq 0$

Bygen paccharpeboro charana cayra $\sum \vec{F} \neq 0$.

Onor: $\sum \vec{F} = m\vec{a}$ (Bropoù 301601 Holorotta)

То есль $\widehat{\Sigma F}$ n \widehat{O} , а коэффициент пропорушене мыности и инертно масса. Съственно, так маки опреденты инертную массу, и не факт, гот она свезана C травитационной.

Onot: chosognoe nogenue tena nog quicobren curs resects.

Copocur c Nyencuoù Sauthi gla Tere, c spal. Maccathi mil i miz

Knoperus: $\alpha_1 = \frac{m_1^2 g}{m_1^u}$ $\alpha_2 = \frac{m_2^2 g}{m_2^u} \Rightarrow \frac{\alpha_1}{\alpha_2} = \frac{m_1^2 m_2^2}{m_2^u m_2^2}$

2 10 10-11

ONDA: TEND GOCALIANT BERM ognolpeneum. => Q1=Q2 4 m = m4.

Cuny no 2 cocrabusorque u pacemagnilare gluterne Egent Kortopi y mux keyabucumo.

Econ tens afurperce no oup. c noco cuspocito:

(an)

 $|\vec{v}| = \text{const}$ $|\vec{v}| = \vec{v}_{\text{e}} + \vec{v}_{\text{m}}$, no $\vec{v}_{\text{e}} = 0$ $Q_{\text{m}} = \frac{V^2}{R}$. Therm objection, no teno generalization can be hamped from the pagence: $m_R^{V^2}$ (cura, c k-pai nego teno

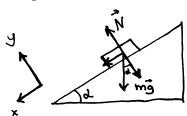
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Spyroi bapuous paznoxenue

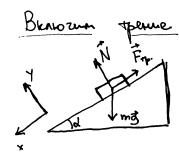


Mokho Zamcath 3-4 Hohataka gre managoù y ocen:

$$m\vec{a} = \vec{F}$$
 { one x: $ma_x = mg \sin d$ =) $a_x = g \sin d$ one y: $a_y = 0$ = $a_y = 0$

Baxus: coxpaners aging - by the cucreting noopguner la reserve been

Hint: upu d ax=0 => bie upabravio.



$$m\vec{a} = \vec{N} + m\vec{g} + \vec{F}_{TP}$$
 $O(e \times i) \int ma_{x} = mg \sin d - \vec{F}_{TP}$
 $O(e \times i) \int ma_{x} = mg \sin d - \vec{F}_{TP}$
 $O(e \times i) \int ma_{x} = g \sin d - \mu g \cos d$
 $O(e \times i) \int ma_{x} = g \sin d - \mu g \cos d$

Euse upurep (kemer nog yrnom k ropyonag)

1 mg

$$m\ddot{a} = m\ddot{g}$$
 A economic $y: \alpha_y = g, \alpha_x = 0.$

A ecan

mg

bce paluo $a_{x}=0$, $a_{y}=-q$

Fro znazna, zzo no och x glukenne palmonephoe (ax=0), a no y -p/yon.

T.e.
$$V_x = V_{0x}$$

Moro: Eura exopocos Vosind, no guerrimaerce na gt ->

$$\int V_{y} = V_{0} \cdot s \cdot d - gt$$

$$\int V_{x} = V_{0} \cdot c \cdot s \cdot d$$

Bonpoc Kar Memeerca MoopgunaTol X(E) ~ y(E)?

C x Nomerno, pag Vx = const Vosind -gt

glockenne no y northo "proproxus" he gle zeca: protronepuse le p/you.

Dre kertgoro lei yleetus.



Moxes Sours Terr, uso a=0, no glowerus up son lette. BAXHAS OCOSEMHACA B capter c marker ax=0, to up son maken return l top. memp-u. Palmonepus (cuopoca Vx=Vo cood = const) u upaponemento. Her cun, gerich b From transpalareture => turers to nelisette

TEPBOIN BAKOH HOHOTOHA CYMPER BYLOT TANNE CHEREND OFCIETA, & MOTOPHEX TEAD, he bjournagembyonger a gostum tenarm, companier coetosture profunctioners upono repedento glantonia. Tame c/o - mepuno rombio.

B crysee c nammen - unepy. c/o Benne, nocuoning & new namene no rop negut probronopro a aparonemento. [Boracouro ycusperus y- Jo lopany. Bern; a= 402 Ro T = 3.4 cm Megarabun, 200 mbs Sexus za ranven co chopocroso Vocosd. 400

upouckogues? Kameno Syger nagaro Representa buy. Bonpoc A ears un mennepymenteure current orcréta?

B. , aporthon no nemp-10 1

Euse upo glonkerne c yenoplemen.

Augure naceoù m croux na nong matra, nomprin glanterus c yenopemen oità. vavoi curas mos gabre la sugue?

- Decru rupt novavice, to N=mg. No dune cure yripyrocon none.
- 2) cem cer yespenne a , To ma = N+mg, um

 $may = N_y - mq \Rightarrow N_y = m(a+q).$

T.e. cura Sorbure, ver mg. - reperpyons! Bec P=-N

Unequeno, un pegypoter ne zalante or us you bruns glasterns - t.e. reperpropa le crysse toproxerus rupts.

Banesum, no $\vec{N} = m(\vec{a} - \vec{q})$, r.e. eem $\vec{a} = \vec{q}$, to teleconocal Einje upunep: venoben noguparulaer. Beë lipene er orpube go upungemenne le rebeconocon.

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Pagéapares businatemente c Enavoir u lepédicai.

 $\begin{cases} m_1 \vec{a}_1 = m_1 \vec{g} + \vec{T}_1 \\ m_2 \vec{a}_2 = m_2 \vec{g} + \vec{T}_2 \end{cases}$ $m_1 \vec{g} = m_2 \vec{g} + \vec{T}_2$

Nouve agrangement: (moch m1>m2)

 $\int_{-m_1a=mg+T_1}^{-m_1a=mg+T_1}$ $m_2a=-m_2g+T_2$ => $T_1=T_2$

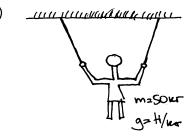
$$T = \frac{2m_1m_2}{m_1+m_2}g$$
, $\alpha = \frac{m_1-m_2}{m_1+m_2}g$

Econ mi=m2=> a=0 (tena nos le nouse, nos) glunges palnonyme,

Bb180Ab1: cem tures relecone u

repacae*una, to T no mognio
ogunando la lex touse musi.

Cm. cap. & gra boupocob.



Cum hatoxeume

- a) > 290H
- 8) = 250A
- 8) L 250H

Ugeanzayun

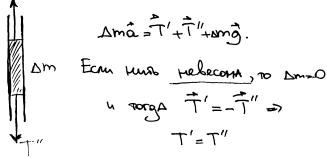
1) turn hepactoxuma - the nemberco grama => $\alpha_1 = -\alpha_2$

2) no TI 3-my cure, a noropoli

(pyz) patriorilaer mos, palme cure

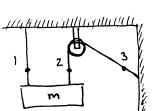
morresporms mos. Ho was coothocatro

retay cason T, nT2?



34A4407, le grousexx mon cabo u cupabo or Enous hossexerms gomendo.

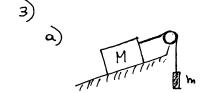
3) Snok hebecom. Ether der to T, #T2, To he hero genicolyer nope cur u on gonzen procupyunberica. Buerno, T=T

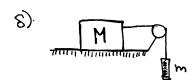


KAK COOPROCETICE
METRE, COSOÑ CUMON
MOTEREME MUSI

L TOMBO 1,243?

Trimatil: bosolow sodom





りてって シエ・エ

2) TazTb 3) TazTb Homepage: http://apctp.org E-mail: sec@apctp.org



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NMRYABC



- a) your ympyrus, At=0.1c, V=30 m/c, m=50r
- 8) year regulation, -

PAZININA: OFCHENNBOEX / HE OTCHENNBOERT.

II 3-M HistoroHA:
$$\Delta \vec{r} = m \Delta \vec{r} = m \vec{a} = \vec{r}$$
 gre M.T.

Dus orchem?

$$\begin{array}{c} \vec{F}_{12} & \vec{F}_{23} \\ \vec{F}_{13} & \vec{F}_{31} \end{array} = \begin{pmatrix} \vec{F}_{12} + \vec{F}_{13} \end{pmatrix} \Delta t + \vec{F}_{12} \Delta t \\ \Delta \vec{p}_{1} = \begin{pmatrix} \vec{F}_{12} + \vec{F}_{13} \end{pmatrix} \Delta t + \vec{F}_{23} \Delta t \\ \Delta \vec{p}_{2} = \begin{pmatrix} \vec{F}_{21} + \vec{F}_{23} \end{pmatrix} \Delta t + \vec{F}_{24} \Delta t \\ \Delta \vec{p}_{3} = \begin{pmatrix} \vec{F}_{31} + \vec{F}_{32} \end{pmatrix} \Delta t + \vec{F}_{3} \Delta t \end{array}$$

$$\Delta \vec{p}_1 + \Delta \vec{p}_2 + \Delta \vec{p}_3 = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{13} + \vec{F}_{32} + \vec{F}_{32}) \Delta t + (\vec{F}_{11} + \vec{F}_{22} + \vec{F}_{32}) \Delta t = (\vec{F}_{11} + \vec{F}_{22} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{32} + \vec{F}_{32} + \vec{F}_{32}) \Delta t = (\vec{F}_{12} + \vec{F}_{21} + \vec{F}_{22} + \vec{F}_{32} + \vec{F}_{$$

Uzanipologicha a cucrema: $\sum_{j=1}^{N} \vec{F}_{j}^{ent} = 0$, been use convenience polaries $\Delta \vec{p} = 0$ => $\vec{p} = const - coxpanse convenience polaries <math>\Delta \vec{p} = 0$ => $\vec{p} = const - coxpanse convenience polaries <math>\Delta \vec{p} = 0$ => $\vec{p} = const - coxpanse convenience polaries conv$

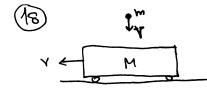


Tenen sym. c ensi 1004. Ho co coponer legens toke 100H_ cuonnenc.

Northy gluxeres?



nyna zacepeleur le tenestre. Koncerna cuoporco? Offers: U= MU+mV > V



to the louper.

Other: $u = \frac{Mv}{M+m} < v$

2 2 aguino libre nogum des comportibreme (no une promi) afontyre no no. The oppose. Herminoesia gorgo (leprimonomia). Chapteren y nogum is! bosséphoboso bogy, cuoprenses en regun N2 - como. Nogue glambeses touse Il muso, kno Shoppe Jumynyer?

Nyer house gotge m. Torga u= MV Uyn. Cugoca = V-u= V T.e. rge M/m Sonoye, tem ym. Cuopara heurne, Case., hosegue consymin.

Benomium by GARLING: $\vec{\Gamma}_{ym} = \frac{\sum m_i \vec{r}_i}{\sum m_i}$. $\vec{\tau}_{org,A} = \frac{\sum m_i \vec{V}_i}{(\sum m_i)_{=}} M$ Ho, c glyrod croporus, $\Delta \vec{p}_1 + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \sum_{j=1}^{N} F_j + ... + \Delta \vec{p}_N = \Delta \vec{p}_2 = \Delta \vec{$

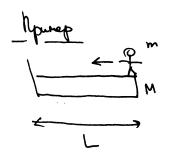
M DVy.n. = Ext

Virue, econ $\sum F_i^{ext} = 0$, to 8th. glowere palmonepus a monorariorsto,

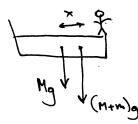
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HA CHONUKO CARMESTA MASTER ASQUE MICHTENHO Sepres ?



$$M_{\times = m(\frac{L}{2}-x)} \Rightarrow x = \frac{mL}{2(n+n)} \Rightarrow$$

$$color again = 2x = \frac{mL}{2(n+n)}$$

Peacerubras cura

Ecan brispockaleura house-to macca, to y. h. gonten octation he heese =) Tay uz voca. Kopatone noverus le ogly cropony, a kopatre - le opyryse.

Nucrou (peauxilyase cura)



Denk robing ; for robing ?



The continue g. He chose when the continue g therefore g then g th