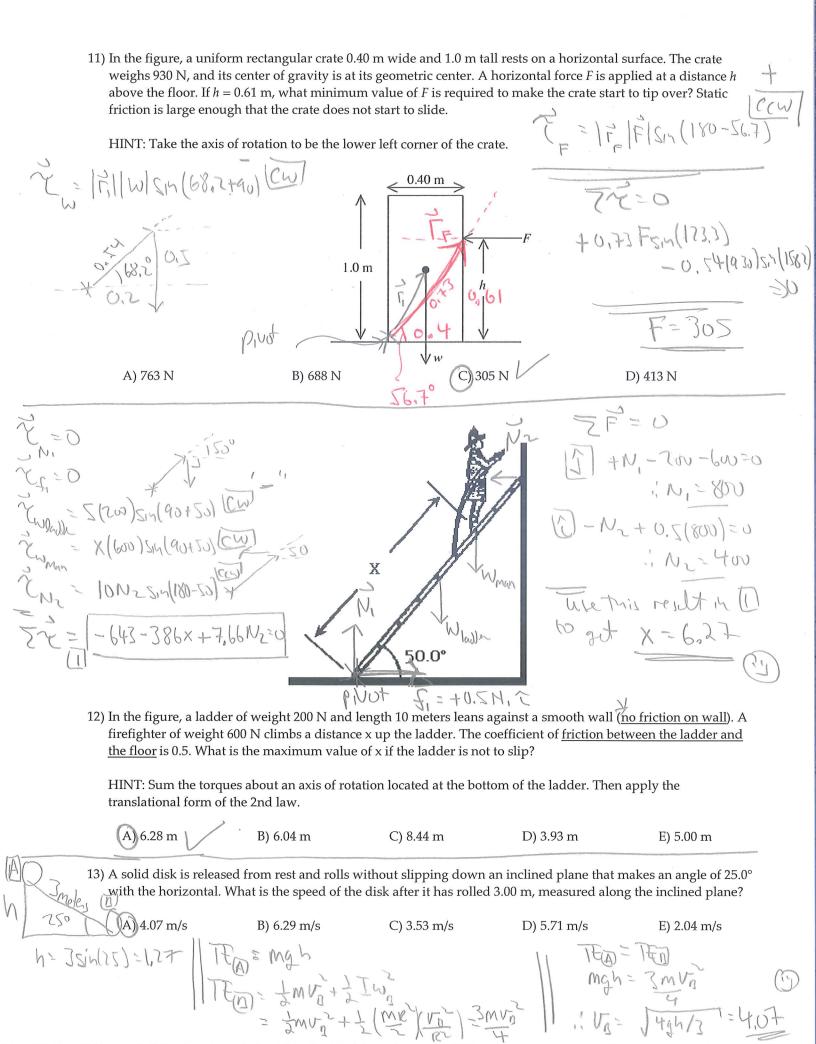
g*nedicardos	7= [1]	Prot 1: (10-61,3)		·	EY		
= 4	W=ma	A TEM	19		Name <u>`</u> 15 Question	ns Exam 3	1000 Carlotte	M
26-74	stick at at the	k can be balanced be 90.0-cm mark, th	a stick can be	halanged by				
M= 28,7 m,	A) 32.6 g	neter stick? NOTE B) 17		C) 73.4	3	D) 89.7 g		(E))127 g
113		xerts an average fo the ball for 1.8 ms.						The club is in
Fac Ut		B) 50		C) 35 m		D) 30 m/s		(E)40 m/s
Millionessasson and State of S	3) A uniform si	ψ = tW t	P as shown i	-	_	-	n on its side	e and its mass is
En		the axis of rotation on the upper right			rner of the	square. Solve	for the forc	e acting
Ci	12/1W/ EN	(90+45)	WIT	0.35 '	P	Construction control of the Construction of th	+0.49	(7×9,8) S.4(135)
() = 1	E E SI	(90) [40]	0	31		PNot	\$ from	-0.75 =0
'ک	A) 24 N		B) 98 N	7	(C)34 N	The second secon	D) (
weater decorrel solved \$2.25 and solve did findle storile conclude.	4) Two equal fo	orces are applied to e doorknob. Both	a door. The		applied at th	he midpoint o	f the door; t	he second force is
SEE	B) the first	ert equal non-zero	torques	K	Parents .		Parameter Communication of the	
This is	D) the second E) addition	ert zero torques ond at the doorkno nal information is duch twy	needed 🦳		-W0	F		
	5) A fan is turn	ed off, and its anguacceleration of the	ilar speed de fan? W(+)	= 10+95	10.0 rad/s to	6.3 rad/s in 5	1,0	s the magnitude of
	A) 0.37 rac	d/s ² B) 11	.6 rad/s ²	C)0.74	ad/s ²	D) 0.86 rac	1/s ²	E) 1.16 rad/s ²
		n are riding on a m ch child has the lar	erry-go-roui	nd. Child A is	s at a greate	r distance fron	n the axis o	f rotation than
	C) Child A D) They ha	ave the same zero A O AN AN ave the same non- s not enough infor	zero tangenti	al speed.	e question.	X L.		
				B-1	and the second	V,= F,1	With the	人 リューリスルト
			and the second s				1=1.v	and the second second and the second

T = 1×10									
7) A 1000-kg car is traveling at 20.0 m/s toward the north (let that be the +y direction). During a collision the car									
receives an impulse of 1.00×10^4 N·s toward the south. What is the velocity of the car after the impulse is applied to the car?									
A) 10.0 m/s south B) 0.00 m/s C) 20.0 m/s north D) 10.0 m/s north E) 30.0 m/s north $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$									
8) Consider a solid sphere of radius R and mass M rolling without slipping. At any instant during the motion,									
which form of kinetic energy is larger, translational or rotational?									
A) Rotational kinetic energy is larger. (B) Translational kinetic energy is larger. (C) Both are equal. (D) You need to know the speed of the sphere to tell. (E) You need to know the acceleration of the sphere to tell.									
9) A wrench is acting on a nut. The nut is at the origin and the wrench extends from the nut along the +x axis. A force of 150 N acts on the wrench at the position x= 15.0 cm at an angle of 30.0°. What is the torque the wrench exerts on the nut?									
E 10.12 1(120121210) - 11.7 (CM)									
A) 1949 N·m (B) 11.3 N·m (C) 19.5 N·m (D) 2250 N·m (E) 22.5 N·m									
0) If the torques on an object add up to zero,									
A) the object is at rest. B) the object cannot be rotating, but might have a translational motion. C) the object could have a translational acceleration but it could not be rotating. D) the forces on the object also add up to zero. (E) the object could be rotating and have a translational accleration.									
Not all favor will									
Produce targets about a translational motion.									
Adres axis. Could be static									
rotational equilibrium									
dynanic notativo									
og i Obsin									
MILE: This EXACTY									
Note: this EXACTLY Now we used these terms for >F=ma=0									



14) If a constant net torque	e is applied to an object, that o	object will	
B) rotate with const C) rotate with const D) rotate with const	ing moment of inertia. ant linear velocity. ant angular velocity. ant angular acceleration. sing moment of inertia.	(Mtarty)	the mean cont
15) A wheel accelerates fro turn while accelerating		74 rad/s ² . Through what an	gle (in radians) did the wheel
(A) 24 rad	B) 30 rad	C) 19 rad	D) 48 rad
(1) O(H)= 1(1)	7416= 376		
[] W(+)=	744	, *	
Ot-tijn)=59 B=3.	n daerj	
D => 59==	, , ,		
, ,	c. = 0,80		
(D-) 0;=	31(0.8) = 53	Sradas V	