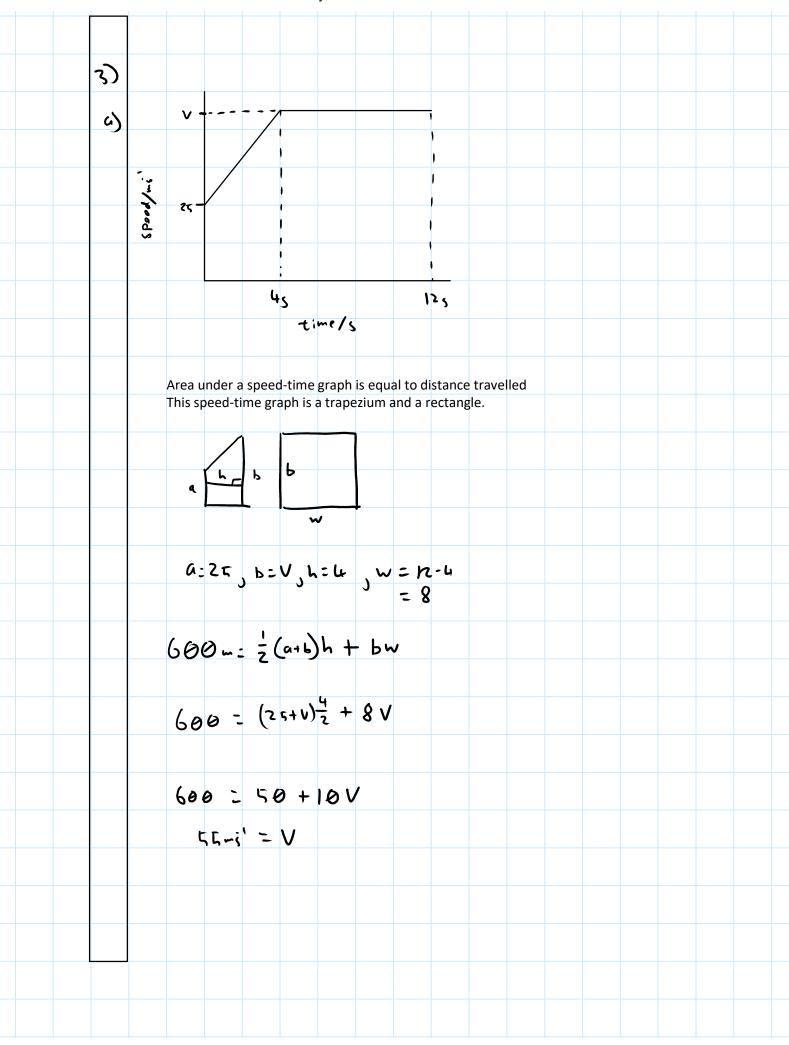
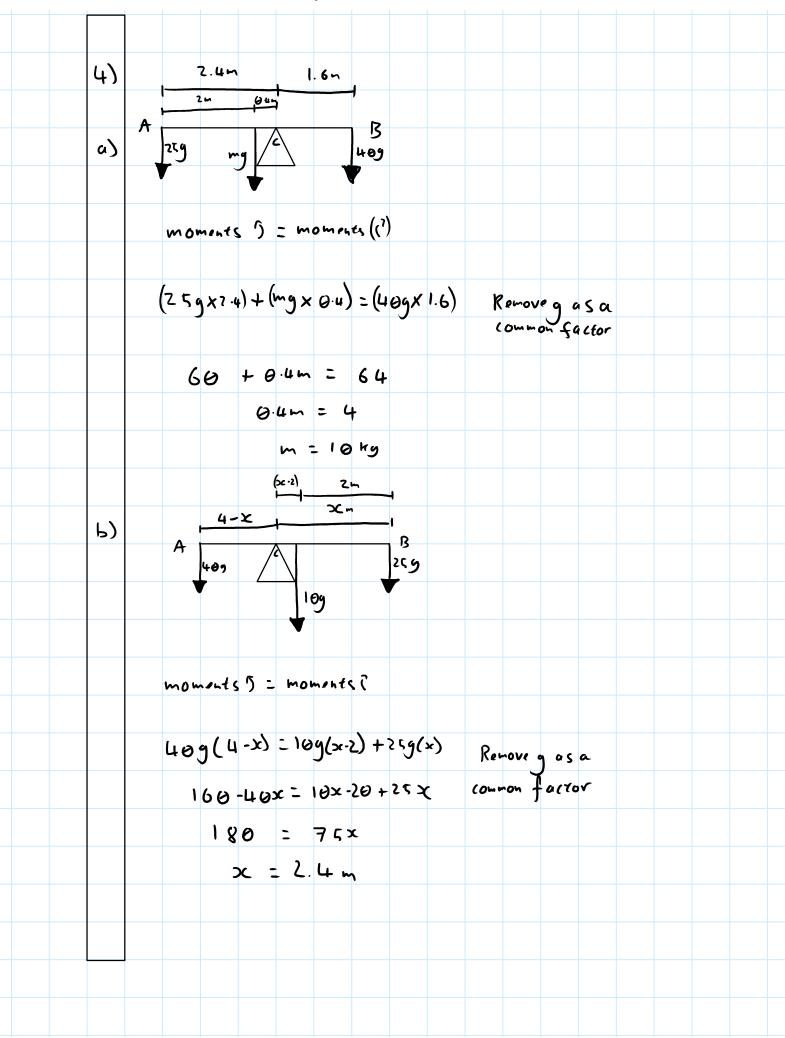
Mock	XMA-M1
	AB
1)	16mg ⁻¹ 34mg ⁻¹
	156~
	5 1502
	N 16 = 5'
	V 34-5 ¹
	A
	T _ l
a)	$V^2 = u^2 + 2\alpha S$
• • • • • • • • • • • • • • • • • • • •	
	1156=256+300a
	900 = 300 a
	a = 3 m s ⁻²
P)	S=(u+v)t
	150 = (16+34) t
	150 = 25 t t = 6s
	t = 6s

			11901001								
	3ms ¹ 4 ->7	·									
د) اه	-51	X	B								
	75-		l								
	5 71	- - -									
	U 16	- I - I	ر ₅ =۱	ν ² +	2 a	S					
	V _	,	,2 -	266.	+ l 1 i	_					
	V _ A 3~	5	vij	706	7						
	TX		V =	26.6	ζ -	3 S f					
						- 1					

	1 Hydrod walland alondon
2)	A C
	30 10
	T \ \ \/27
	B
a)	Horizontal forces in equilibrium
	T Sin (30) = 2T S:n(a)
	$\frac{T}{2T} \times \frac{1}{2} = S : \neg (\alpha)$
	Sin'(1)= 14.5° (354)
P)	Verticle forces in equilibrium
	27 (os(14.5) + T (os(30) = 2g
	2.87 = 29
	T = 6.99 N



			ysicsAriaivie	ati is i utor.ct)		
3)							
c)	<u>a</u> - <u>A</u>	V					
		L					
	$a = \frac{\Delta}{\Delta}$ $a = \frac{\zeta_1}{4}$	- 0 - 52					
	q = 3	0					
	_	7					
	a: 7	.5 m 5 ²					
	•						



			1 Hydidd	HIGHIANIST	101.00	,,,,					
4)											
,											
ري (i) Plank s	ssumed to k	o uniform s	o woigh	t acts	in contro of	nlank (AV –	DV - AD/	'2 \	
		I) Platik a	issumed to t	e uninorni s	o weigi	it acts	in centre or	piatik (AA –	DA – AD/	2)	
		ii) Plank a	issumed to b	e a rod as it	is assu	med ri	gid, doesn't	bend under	force &		
			ore remains								
	i	ii) Their v	veights act e	xactly on the	e ends o	of the p	olanks				

_						ysics	HIGIVIO		±101.00	,,,,,					
5)		5	۱.6س												
		U	0-5	. 1		\/ ² =	u²+	2 a	5						
4)		V	_			-	0+								
			4.8-	įl			5.6								
		Τ	X	3		V -		~3							
					_				٠.(_				
P	- 7	Peny	Js	.6-5		Oh S	er Va	1.0h	08	mom	ntum				
					/_		a\ ,	(١.	\		\			
		Skg	0-	<u> </u>	(5	.6x 4	8)+	(0×(s)	() X	78+	6)			
										-1					
		•					V	_ (۲.۲	μζ					
()				•											
			5.2			V:	_ u-	· a	Ł						
		V	0n	<u>آ</u>		0:	5.2	2 + 6	9.06	α					
		A				a	- ·	260							
		T	6.0	6											
	F	(1)	· F(<u>(1)</u>	m	α	6) ×								
	(7	8+	6)9	- F	= f	78+	6) x	-3	3						
			-		•										
		٦	· =	823	.2	+ 7:	280								
		F	`_	81	63	.2	N								
			_												

				 y 31037	MIGIVIC	1111310	101.00	111				
5)	S											
	U	5.20	٠٠٠									
d)	V	0-9	. 1	s = (<u>u+</u>	<u> </u>						
	A	X		<i>J</i>		_						
	U V A T	6.6	6	ζ =	5.	<u> </u>	(0.6	96				
	1			J -								
				ς -	Θ.	156	m					
					_							
				5=	01	6	lo . 1	١١				
					O .1	Um	(2 5/	·)				
												_
												_

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6)	A: So =-51+10;	B: 50: 31 +45
		V:-2i+5j
a)	r = (5+26) L+(10+20);	
	(-5+2t) i + (10+2t); =	(3-24): +(4+56);
	Same i Value:	Same j Value
	-5+2t=3-2t	10+21=4+51
	4128	6 = 3t
	t :2	1:2
	At time t = 2, they have same displace are in the same place at the same time	
(A)	A: So=-5L+103	
	V= i+j	
	new ra - (5+t); +(10+t);	
	AB = rB-rA	
	TD - YB-YA	
	(n)	
	= (3-26); +(4+56)); -(-5+t); +(10+t);
	- (8-3t) = + (-6+4	t);

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5)			
) 1400	is t=2h		
1 - 7 1	wbret=Z		
IAUI	WORE (22	distance not displan	emeht
(4) 12	(, , ,		
1(8 - 6)	+ (-6+8) - 5		
	- 2	.83 mm (zsj)	
		, ,	
4)			
tire wh	ere icomponent o	SAR IS Ø	
9	}-3t=0		
	t- 8		
	3		
	2 and 3 hours	Crechooh	
	2 4.10 3 4.00	4.11.41004	
	14 40 hours	5	

	1 Hydrod, trialmatile ratemeetin
7)	24N/30.
	1,
_	130° 29 30° 1 M= 0.4
(a)	30° 29 3° N= 0.4
	F(T) R + 24 5:4(30) = 29 (05(30)
	$R + 12 = 9\sqrt{3}$
	R - 9J3-12
	F(7) 24 cos (30) - 29 sin(30) - Frax = ma
	20.8-4.8-2.0=Za
	8.99-29
	a = 4.5 (25f)
P)	Loske J. R
	R-29 Lostee L R
	2
	26
	2y 2ysin(30°)
	J. J. (3)
	2g sin(30) = 9.8 N (2g cos(20)) = 6.8 N
	(2:11 (24/05/201) - 6.8 M
	= 4 (-9(038e)) = 0.31V
	9.8 > 6.8 : motion down plane

	Pny	ysicsAndiviaths i u	ior.com	
7)				
(2)	F(U) - F(J) =	mu		
	16, 16, -			
	9.8-6.8=2) a		
	. 0 0 0 2 2			
	3.01:29			
	a = 1. 5	m 5 2 (25f)		
	1.3	~, (25f)		