-9050-?1	19?≒	-9050-?1			
⊠ -8 1	⊠ ⊠8 . 1=	⊠ ⊠8 . 1=			
		2			



GCE AS/A level

1321/01

PHYSICS

PH1: MOTION ENERGY AND CHARGE

A.M. WEDNESDAY, 12 January 2011 $1\frac{1}{2}$ hours

 $\boxtimes \boxtimes 1.7/6596 \boxtimes =.7/6.-77 \boxtimes 59? \boxtimes 19$

) = $9.1 \times 9.8 \cdot 1 = 9.8$

9\bigode{B}1= \bigode{B}\b

) = 9.1 D = 9 B 1 = 59 .41 B - / 1 B = A 50 10 59 .4 5 . B 6 7 1.

	<			
-0 6 \times \times 08 31 \times - \times 07				
3⊠12⊠ ⊠	6⊠ 3⊠ 0⊠	0⊠ 5 0⊠⊠		
1.	1			
•				
•	1			
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•	1			
-2 ⊠				

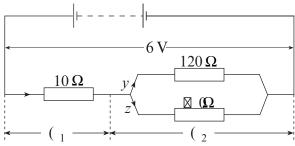
 $\boxtimes 41 ? \boxtimes ?-79 \boxtimes 8 . 1 = \boxtimes 28 - = 6 \boxtimes -A 57 . 71 2 \boxtimes = ?45 \boxtimes \square - \boxtimes 1 = 5 \boxtimes 0$

 $\boxtimes 41.9 \boxtimes 8.1 = \boxtimes 28.- = 6 \boxtimes 35 \boxtimes 35 \boxtimes 9.= /61 \boxtimes -?241.190 \boxtimes 21-/4 \boxtimes 1 \boxtimes 2 \boxtimes 9 \boxtimes = \boxtimes - = 2 \boxtimes 1 \boxtimes 2 \boxtimes 9$

* 🖾 - 🗦 🖶 59010 🗠 2 ?4191/1 🖾 5.D 2🖎 = 3 🖾 0 937 5 4 - 90 🖾 = 01 = 7 D 🖾 = 1 🖾 19? - ?5 49 59 🖸 🖾 = - 9 4 B 1 = 2

* \boxtimes -= = 18 59010 ? \boxtimes \boxtimes \boxtimes B - 77 B \boxtimes = 593 = 105? \boxtimes 35A19 \boxtimes = / \boxtimes = / \boxtimes = 1A19 B 419 ? 41 259 - 7 - 9 \boxtimes B 1=35A19 \boxtimes 59/ \boxtimes = /?

1.	(5)	(5) \(\times \times 93 \)?41 501- \(\times 2 \)171/?=\(\forall 4 - \Rightarrow 1 \) 10\(\times 7 \) 59 \(\times 4 - ? \) \(\times 8 \) 1-9?. \(\times 1 \) \(\times 90\times / \times 8 \) \(\times 1 - 9 \)? \(\times					59 - M		
	(55)	⊠41 ⊠95⁄. ⊠2 171/?=5// -7?1=9-?5Al ⊠95⁄. ?⊠ ?41				⊠2 ?41	2⊠7⊠B593 \$	∃ - /⊠=	/? ⊠
		1	\boxtimes 1	\boxtimes 1	(1			
		I.		l.					



- (5) $= 210 \times 1999 \times 41 = 7.2 \times 9 \times 450 \times 1.1919 \times 41/8 = 1920 \times y 90 \times 59.41/5 = 10.5 \times 1990 \times 19$

-**7**⊠7?1

- (5) ?41 ∃⊠⊠-9/1 ⊠2 ?41 /⊠8 . 59-?5⊠9 ⊠2 ?41 ?4∃1 ∃⊠⊠⊠∃⊠ ⊠8
- (55) ?41/⊠=19? ⊠

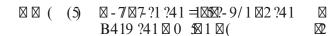
 $\boxtimes 2$

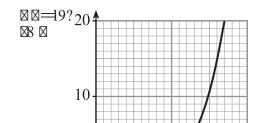
(5A) $?41/\boxtimes = 19?\boxtimes y - 90 z$

 \boxtimes

 $\boxtimes 0 \boxtimes$

 \boxtimes



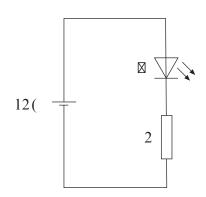


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(55) □ □ □ 8 8 19? □ 9 ?41 = □ □ □ 2 ?41 □ □ -? A□ 7?-31□ 1□ B 1 0 (□ -7 □ 7 ?□ 9□ - = 9□ ? = □ □ 5=10

 \square \square ((5) \square \square 59 \square 4 \square B \square 24 \square 43 \square B \square 24 \square 48 \square 7 B \square 48 \square 7 B

 $(55) \quad \boxtimes -8 \ 1 \ \boxtimes 91 \ \boxtimes ?41 = 01 \text{A5} \ 1 \ \boxtimes ?41 = ?4 - 9 \ - \ 05 \boxtimes 01 \ ? \boxtimes \ \text{B454} \ \boxtimes \ 48 \ \boxtimes \ 7 \ \text{B} \ 0 \boxtimes 1 \boxtimes 9 \boxtimes ? - \boxtimes \square \text{D}$



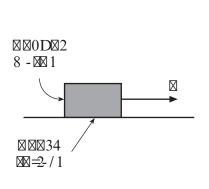
⊠ C 8 591= ⊠97D

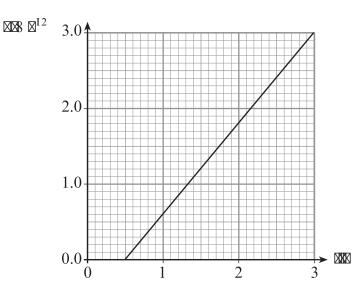
0.52052 - ?12191 = 3D - ??41 = ?122021) 20 - 727 = 7252 = 202

 $\boxtimes \boxtimes \boxtimes \boxtimes 1?1?41?-.71.1 \boxtimes B 5905-?593 B41?41=?41 \boxtimes -9?5!D35419 5 \boxtimes 1.71.1 \coprod 1.71.1 \coprod$ 2⊠=?45⊠7⊠931=B5≒⊠

 $\boxtimes =$ \boxtimes ,

⊠ ≠3100-121/?529-7⊠ =1-	
⊠ ⊠9⊠8 . 1=⊠2 2=11 171/?=⊠9 ∞ ∞39 5? A⊠7⊠8 1	
⊠ 1⊠5A5?D	

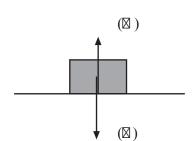




(55) $\boxtimes \boxtimes 1 \square \boxtimes = 3 = \boxtimes 4 ? \boxtimes 0 1 ? 1 = 8 .59 1 ? 41 A .7 \Sin 1 \Sin 2 .1 \Sin 1 .41 A .7 \Sin 1 \Sin 1 \Sin 1 .41 A .7 \Sin 1 .41 A .7 \Sin 1 A .7 \Sin 1 A .7 \Sin 1 A .7 \Sin 1 A .7 \S$

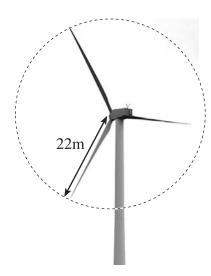
 \boxtimes ,

 $\boxtimes \boxtimes$ ((5) -. 172 $\boxtimes \neq$ 1 \boxtimes (\boxtimes) - 90 (\boxtimes) - 72 \boxtimes -/?593 \boxtimes 9 ?41 . \boxtimes 01 \boxtimes



(55) %-?1 ?41 \(\times 1B ?\(\times 9 \) ?45=0 7 B = 1-/?5\(\times 9 \) ?\(\times 1 \) (\(\times) -90 ?\(41 \) . \(\times 0 \) D\(\times \) B454 5? -/?\(\times 0 \) \(\times 0 \)

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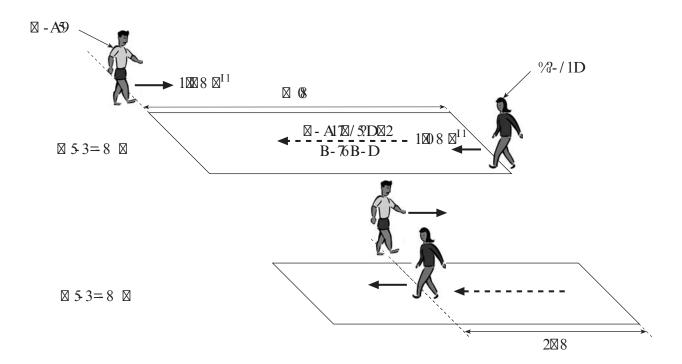


(55) \(\times \ 19/1/-7\times 7\cdot ?1\cdot ?41\times - \times \times 2 - 5=\times - \times \times 3\cdot ?41\times 7\cdot 1\times 1\times 1\times 1\times 1\times 10\times 1\times 1\times

 \boxtimes (\boxtimes 12591 \boxtimes \boxtimes \boxtimes \boxtimes \boxtimes \boxtimes

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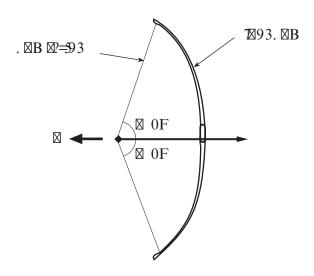
- - (5) \(\times A\times B 76 \times B 74 A1 \times / 2\Dim 2 1 \times 8 \times \(\times \) \(241 \ti

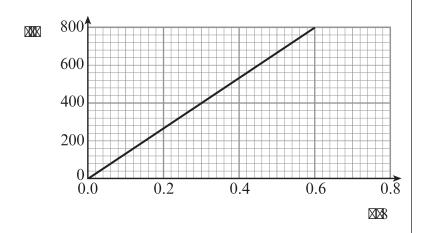


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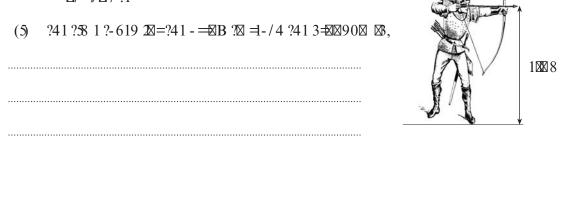
 \boxtimes ,

(5A) $\boxtimes -7 \boxtimes 7.21.241 \text{ Al} \times 20 \text{ B} \times 4.8454 \boxtimes -4.99.90 \% - /10 - 20 = 2.74.1 - /4.241 = 2.41 =$





 \boxtimes (\boxtimes 41 - \Longrightarrow B \boxtimes \exists 71 - \boxtimes 10 4 \boxtimes \Longrightarrow EMS ? - 77D - ? ?4 \boxtimes \boxtimes 110 2 \Longrightarrow 1 \boxtimes 8 - . \boxtimes A1 ?41 3 \Longrightarrow \boxtimes 90 - \boxtimes \boxtimes 48 B 9 \boxtimes 41 - \Longrightarrow B / \boxtimes 9?59 \boxtimes 12 \boxtimes 2 - ?4 \boxtimes 9?57 5? 18 . 10 \boxtimes 5 \boxtimes 172 59 \boxtimes 241 3 \Longrightarrow \boxtimes 90 - 4 \boxtimes \Longrightarrow 39? - 70 \boxtimes 2 - 9/1 \boxtimes 2 \Longrightarrow 8 ?41 \boxtimes 59? \boxtimes 2 \Longrightarrow 71 - \boxtimes 10 \boxtimes 2 \Longrightarrow 7 \boxtimes 7 ?1



(55) ?414 = 3 = 3 = 9? - 705 = 9/1 = 9

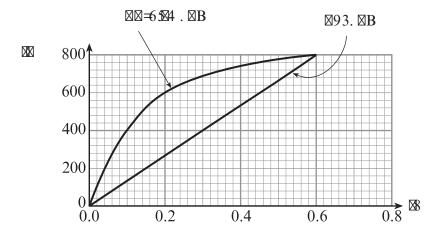
(555) ?41

⊠2 ?41 - **■**B B419 *5*? 4*5*.⊠ ?41 3**■**⊠90⊠

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⊠ C 8 591= ⊠97D





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