ΡΙ	MТ

1321

- 90 50 - ?1	19? ≓	-9050-?1
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		2



GCE AS/A level

1321/01

PHYSICS PH1: MOTION ENERGY AND CHARGE

A.M. WEDNESDAY, 12 January 2011

1¹/₂ hours

9 - 005?509 ?	8	?4⊠1C-8	59-?⊠9	⊠-⊠1=1⊠⊠ B577≓1⊠⊠5≓1-
/-7/\07?\0=-9	0	- 2		

⋈ ⋈ . 7/6 596 ⋈=. 7/6. - 77-⋈⋈ 59? ⋈19
) =\$?1 ⋈⋈ =9-8 1 / 19?=1 9⋈8. 1=-90 / -90 50-?1 9⋈8. 1=59 ?41
⋈⋈ - / ।⋈ -? ?41 ?⋈⋈ ⋈2 ?45⋈ - 31

 $9\boxtimes B1 = \boxtimes \boxtimes \boxtimes 1\boxtimes 2\boxtimes 9\boxtimes$

) =\$1 DXX =- 9XB 1=\$3 59 ?41 XX- / 1XX =\$XA50 10 59 ?45X. XX671?

$-0 6 \boxtimes \boxtimes \boxtimes \boxtimes \otimes 131 \boxtimes - \boxtimes \boxtimes 7$		
3⊠12Ҳ ⊠	6⊠X 3⊠ 0⊠	0× 5 0×××
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 $\begin{array}{l} \boxtimes 41 \ @?-79\boxtimes 8 \ . \ 1=\boxtimes 2\ 8 \ -=6\boxtimes -\ A \ 57-. \ 71 \ @=?45\boxtimes \square-\boxtimes 1=5\boxtimes \ 0 \\ \boxtimes 41 \ 9\boxtimes 8 \ . \ 1=\boxtimes 2\ 8 \ -=6\boxtimes 535\text{Al}9 \ 59 \ . \ =/61\ @-? \ ?41 \ 190 \ \boxtimes 2\ 1-/4 \ \boxtimes 1\boxtimes 5\boxtimes 9 \ \boxtimes =\boxtimes -=? \ \boxtimes 1\boxtimes 5\boxtimes 9 \\ \ast \boxtimes \square \ -=1 \ =18 \ 590\ 10 \ \boxtimes 2\ ?41 \ 91/1 \ \boxtimes 5\mathbb{D}2\boxtimes =3\boxtimes 0 \\ \ast \boxtimes \square \ -=1 \ =18 \ 590\ 10 \ \boxtimes 2\ ?41 \ 91/1 \ \boxtimes 5\mathbb{D}2\boxtimes =3\boxtimes 0 \\ =10\ ? \ 5\boxtimes 35\text{Al}9 \ 2\boxtimes =/\boxtimes =1/? \ B\boxtimes =6\ 593 \ 1\text{Al}9 \ B4\ 19 \ ?41 \ 259-7 \\ -9\boxtimes B\ 1=35\text{Al}9 \ 59/\boxtimes =1/? \end{array}$

1.

59 -

 \boxtimes

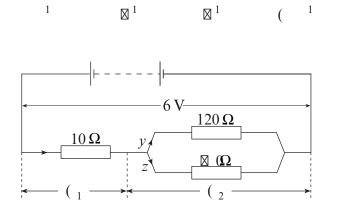
⊠₿

 \boxtimes

PMT

C 8 591= ⊠97D

- (5) ⊠ ⊠93?41501- ⊠2171/?=5//4-=3110⊠759B4-?5⊠81-9?.D /⊠90⊠/?⊠=
 - (5) ⊠41 ⊠95? ⊠2 171/?=5/ /⊠==19? 5⊠ ?41 8 ⊠H+1 () ⊠ 91 ⊠2 ?41 2⊠7⊠B593 5⊠ /⊠==1/? -7?1=9-?5A1 ⊠95? ?⊠ ?41 - 8 ⊠H+1 5≠71 ?41/⊠==1/? ⊠91 ⊠



- (5)) = $10 \otimes B9 ? 41 = 17 ? 10 \otimes B9 ? 41 = 17 ? 10 \otimes B1 = 19 ? 10 \otimes B1 = 1$
- $(5) \qquad \boxtimes 41 = 17 \cdot ?5 \boxtimes 9 \boxtimes 4 5 \boxtimes D \boxtimes \boxtimes B = \boxtimes ?1 \ 0 \boxtimes B9 \ 59 \qquad (5) \ 5 \boxtimes / \boxtimes 9 \boxtimes 1 \boxtimes 219/1 \boxtimes 2 \ B45/4 \\ / \boxtimes 9 \boxtimes = A \cdot ?5 \boxtimes 9 \ 7 \ B \boxtimes \qquad \boxtimes$

-707?1

(5) ?41 ∃⊠⊠?-9/1⊠2?41/⊠8.59-?5⊠9⊠2?41?4∃1∃⊠5⊠⊠=⊠

(55) ?41/⊠=19?

(1321-01)

 \boxtimes

3

(555) ?41 ⊠⊠?19?5·705221=19/1⊠ (₁-90 (₂

(5A) ?41/⊠≕19?⊠*y* - 90 *z*

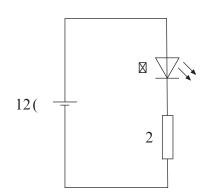
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 \boxtimes

 \boxtimes C 8 591= ⊠97D = 41 / = 9? - A = 7? - 31 / 4 - = / ?1 = 8 / 5 = 2 - 0 / 2 = 0 / 2 = 0 / 2 = 0 / 2 = 7 / 2 $3 = \boxtimes 4 \boxtimes 2 / \boxtimes = 19? - 3 - 59 \boxtimes 2 \boxtimes 219?5 - 705221 = 19/1 \boxtimes = -9$ ⊠ 5⊠⊠4⊠B9 ⊠⊠=19?20 $\boxtimes \boxtimes$ ((5) $\boxtimes - 7 \boxtimes 7 ?1 ?41 = \boxtimes \boxtimes ?-9/1 \boxtimes 2 ?41$ X $\boxtimes 8$ B419 ?41 ⊠ 0 5⊠1 ⊠(\mathbb{R} 10 0 $\boxtimes 0 \boxtimes$ 2.0 1.0 () (55) $\boxtimes \boxtimes 8 \ 8 \ 19? \boxtimes 9 \ ?41 = 1 \boxtimes \boxtimes ? - 9/1 \boxtimes 2 \ ?41$ $\boxtimes -? A \boxtimes ?? - 31 \boxtimes 1 \boxtimes B \ 1 \ 0 \ ($ $\boxtimes - 7 \boxtimes 7 ?$ \boxtimes (X7.59.4XB)?(41.3=X4XBX)?(4-?)?(41) X 0X1X9X? X 1DX 48 XX7B) $\boxtimes \boxtimes ($ (5) \boxtimes (55) $\boxtimes -81 \boxtimes 91 \boxtimes ?41 = 01 A5 1 \boxtimes ?41 = ?4 - 9 - 0 \boxtimes 01 \boxtimes B45 4 \boxtimes 48 \boxtimes 7B 0 \boxtimes 1 \boxtimes 90? - \boxtimes 7D$ \boxtimes ⊠ ⊠ (⊠2 ?41 ⊠ 5⊠ /⊠991/?10 - / =⊠⊠⊠ - ⊠⊠⊠⊠7D⊠2 18 2 3=1-?1=?4-9 1 ⊠ (?419 ?41 7 =31 $/\boxtimes = 19? \boxtimes = 20\boxtimes / 10 B 5770 \boxtimes = 24 \boxtimes = -24 \boxtimes = -289$ ⊠ ⊠ ⊠⊠⊴-77D4-A1 ⊠=32?1/?5A1 =1⊠52?⊠=3 **5** ⊠1=51⊠B5?4 ?418 ?⊠ 758 5? ?41 /⊠==19? ⊠41 / 5≠⊠5? ⊠4⊠B⊠?45⊠ \boxtimes \boxtimes \boxtimes 10 - \boxtimes - 9 5905 - : \boxtimes =

 $2 = -7 = 8 \otimes 41/- = -??1 = D \otimes 2 \otimes 7 \otimes 12(-90?41 \otimes 4 - \otimes -9 \otimes 1 = ?593/ \otimes = 19? \otimes 2$

 $1 \boxtimes 8 \boxtimes 1?1=8 \ 91 \ ?41 \ A \ 121 \ 2 \ 122 \ ?41 \ 125 \$



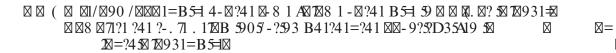
(1321-01)

1321 010008

 $\boxtimes \boxtimes (\boxtimes 1 = 5A \boxtimes 35A \oplus 3 - 7 . 17710 05 3 = 8 \boxtimes ?41 = 17 ?5 \boxtimes 9 \boxtimes 45 \boxtimes . 1?B 119 ?41 / \boxtimes = 19? 0 ?4 = 8 \boxtimes 34 - 8 1? - 7 B 5 = 102 / = 2 \boxtimes \boxtimes \square / ?5 \boxtimes 9 - 7 - = 1 - 102 ?41 0 = 52? A17 \boxtimes / 571 \boxtimes \boxtimes \boxtimes 2 ?41 2 = 11 171 / ?= 2 9 \boxtimes 1 - / 4 \boxtimes 2 / 4 - = 31 \boxtimes -90 ?41 9 \boxtimes 8 . 1 = 2 \boxtimes 2 = 11 171 / ?= 2 9 \boxtimes 21 = 29 5? A \boxtimes 28 1 \boxtimes 2 ?41 8 1? - 7 \boxtimes 28 , (0 \boxtimes 2 - 2 \boxtimes) \boxtimes$

 $\boxtimes \boxtimes (\boxtimes -\% \boxtimes 7?1 ?41 0 = 52? A1 \boxtimes / 5? D \boxtimes 2 2= 11 171 / ?= \boxtimes 9 \boxtimes 59 - /\boxtimes \boxtimes 1 = B 5 = \boxtimes 2 / = \boxtimes \boxtimes \boxtimes 1/? 5 \boxtimes 9 - 7 - = -1 \boxtimes G 10^{1 \boxtimes} 8^{-2} B 419 - /\boxtimes = 19? \boxtimes 2 2 \boxtimes \boxtimes 2 \boxtimes B \boxtimes \boxtimes _{/\boxtimes \boxtimes 1 =} \boxtimes 1 \boxtimes G 10^{2 \boxtimes} 8^{-13}, \boxtimes 2, = \mathbb{Z}$

 $\boxtimes \boxtimes (\boxtimes 41 / \boxtimes \boxtimes 1 = B = 5 = 59 \boxtimes \boxtimes (5 \boxtimes \boxtimes 27193?4 2 \boxtimes 8 \boxtimes) 419 5? / - = 51 \boxtimes - / \boxtimes = 19? \boxtimes 22 \boxtimes \boxtimes 5?$ 05 \XXX5 - 21 \XX5 19 1 = 3D - ??41 = ?1 \XX5 2 0 \X5 1) \XX5 - 71 \X7 27 21 5\X5 = 1\X5 25 \X5 1) \X5 4 \X5 10 \X5 4 \X5 10 \X5 4 \X5 1) \X5 4 \X5 4 \X5 10 \X5 4 \X5 10 \X5 4 \X5 10 \X5 4 \X5 10 \X5 10 \X5 1 \X

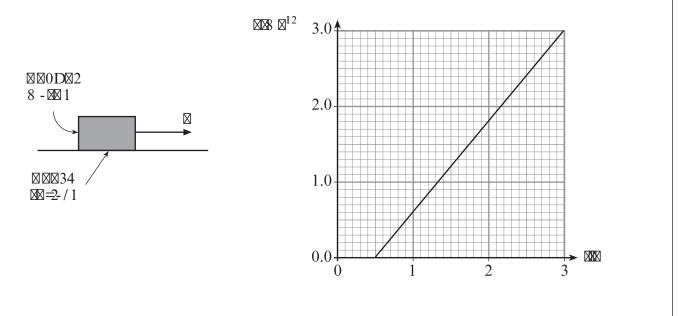


Ø.

⊠ =⊠⊠⊠-⊠1/?5⊠9-7⊠ =1-	
⊠ ⊠9⊠8.1=⊠22=11171/?=⊠9⊠3⊠95?A⊠7⊠81	
⊠ 1⊠582?5A5?D	

⊠C 8 591= ⊠97D

 \boxtimes



 $\boxtimes \boxtimes ((5) \otimes \mathbb{C} \times 7.59 \text{ B4D}?41 - //171 = ?5 \times 9 \otimes 2?41 . \otimes \mathbb{O} \times 9 \otimes 19?41 - \mathbb{O} \times 710 \times 7100 \times 710 \times 7100 \times 7100$

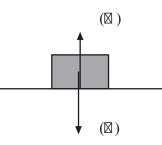
(5) $\boxtimes \boxtimes \square \square \boxtimes \boxtimes = 3 = \boxtimes 4 ? \boxtimes 01?1 = 8 591 ? 41 A 7 \boxtimes 1 \boxtimes 2 1 \boxtimes$

⊠₿,

| ⊠ C-8 591= ⊠97D

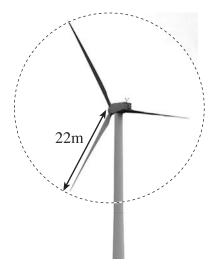
Ø,

 $\boxtimes \boxtimes ((5) -. 172 \boxtimes \neq 1 \boxtimes (\boxtimes) - 90 (\boxtimes) - 72 \boxtimes - /?593 \boxtimes 9 ?41 . \boxtimes 0 I \boxtimes$



 $(55) \quad \frac{12}{2} \cdot \frac{12}{41} \boxtimes 1B \times 9 \times 45 = 7 B = \frac{1}{2} \cdot \frac{12}{5} \otimes 9 \times 2 \boxtimes \neq 1 \otimes 10^{-1} \otimes$

⊠C-8 591= ⊠97D



(5) $\boxtimes 19/1/-7/\boxtimes7?1?418 - \boxtimes \boxtimes2 - 5 = \boxtimes - \boxtimes 593?4 \boxtimes 34?41.701 \boxtimes 1A1 = D \boxtimes1/\boxtimes90 \boxtimes 19 \boxtimes 52 \boxtimes 2 - 5 = \boxtimes 1 \boxtimes 638^{-13}, \boxtimes$

⊠,

⊠97D

11

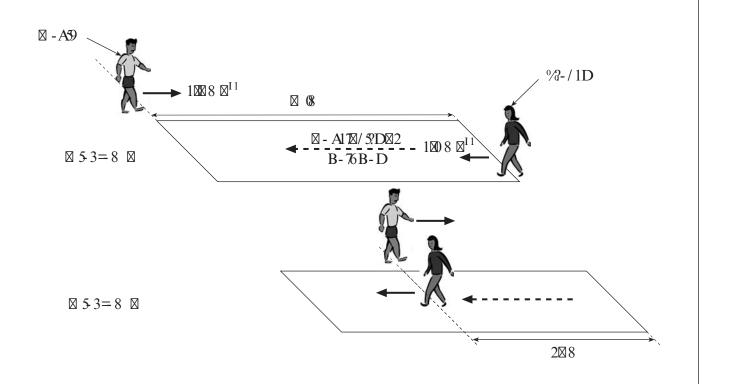
 $(555) \qquad \boxtimes 41\ 8\ 1-9\ \boxtimes 110\ \boxtimes 2\ ?41\ -\ 5=-\ 2?1=\ 5?\ 4-\boxtimes \boxtimes -\boxtimes 10\ ?4=\ \boxtimes 34\ ?41\ .\ 7\ 0\ \boxtimes\ 511\ 8\ \boxtimes\ 11\ 8\ \boxtimes\ 1^1\boxtimes\boxtimes\ -\ 7\boxtimes\ 7?1\ ?41\ 6\ 59\ 1?5\ 191=\ 3D\ \boxtimes\ 2.\ D\ ?41\ -\ 5=\boxtimes\ 1=\boxtimes\ 1/\boxtimes\ 90\ -\ \boxtimes\ 5\ \boxtimes\ 5\ \boxtimes\ 11\ \otimes\ 11\ 8\ \boxtimes\ 11\ \ 11\ \boxtimes\ 11\ \ 11\ \boxtimes\ 11\ \boxtimes\ 11$

⊠.

⊠G 8 591= ⊠97D

12

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



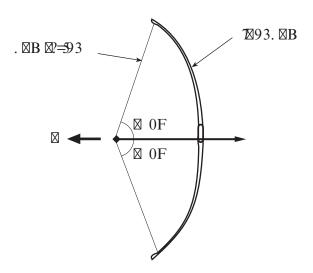
⊠C-8-591= ⊠97D

₿,

(555) ⊠ 19/1 ⊠=⊠?41=B5⊠1 / - 7/⊠7 ?1 ?41 A17⊠/ 5?D3⊠ ⊠⊠2 ?41 B-76B-D3

13

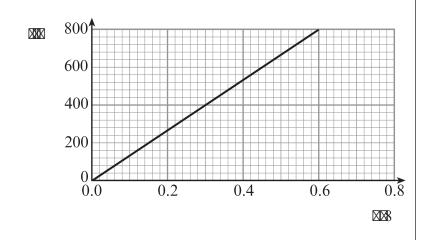
(5A) ⊠ - 7/⊠7 ?1 ?41 A17⊠/ \$?DB \$?4 B45′4⊠ - A\$9 - 90 %-/1D-⊠⊠=⊠-/4 1-/4 ⊠?41=⊠ ⊠,



⊠ 19/1⊠

(55)

 $\boxtimes \boxtimes ((5) \ \boxtimes 41 \ 3 = \boxtimes 4 \ \boxtimes 4 \boxtimes B \ ?41 \ A = 5 ?5 \ \boxtimes 9 \ \boxtimes 2 \ \boxtimes B \ 5?4 \ \boxtimes 2 \boxtimes = ?41 \ \boxtimes 9 \ 3. \ \boxtimes B \ B \ 41 = 1 \ \boxtimes 5 \ ?41 \ 0 \ 5 \square ?41 \ 0 \ 5 \square ?41 \ 19? = 1 \ \boxtimes 2 \ ?41 \ \boxtimes = 5 \ 3 \ 5 \square \ \boxtimes \square \ 7 \square \ 0 \ . \ - \ / \ \boxtimes \square \ 7 \square \ ? \ ? \ ? \ 1 \ ? \ 191 = 3 \ D \ \boxtimes \square \ = 10 \ 5 \square \ ? \ ? \ 11 \ \boxtimes \square \ 2 \square \$



 $\boxtimes \boxtimes 4 \boxtimes B ?4-? ?41 \boxtimes 110 \boxtimes 2 ?41 - = \boxtimes B - \boxtimes 5?$

 $71-A1 \otimes ?41 \cdot \otimes B \otimes - \cdot \otimes \otimes ?1008 \otimes ^{11} \otimes -61 ?418 - \otimes \otimes 2 ?41 - \Longrightarrow B ? \otimes \cdot 1 \otimes 0 G 10^{13} 63 \otimes \otimes ,$

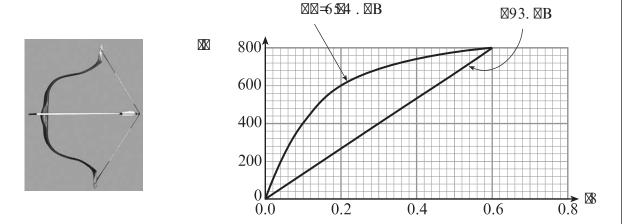
 $1 \boxtimes$ ⊠C 8 591= ⊠97D ⊠ ⊠ (⊠ 41 - ==⊠B 5⊠ =171-⊠10 4⊠=5⊞29?-77D-? ?45⊠ ⊠2110 2=528 1⊠28 -. ⊠A1 ?41 3=⊠⊠90 - ⊠⊠4⊠B9⊠⊠41 - ==⊠B /⊠9?59⊠1⊠ 5?⊠⊠-?4 ⊠9?575?18.10⊠5?⊠17259?⊠?413=⊠⊠90-4⊠=5€⊠9?-705⊗?-9/1 ◎ 2=108 ?41 ∞ 59? ∞ 2 = 171-∞ ∞ ⊠/-7/⊠7-?1 (5) ?41 ?58 1 ?-619 2⊠=?41 - = ⊠B ?⊠ = 1-/4 ?41 3 = ⊠⊠90⊠ ⊠, 12288 ?414⊠=5⊞39?-705⊠?-9/1⊠3 ⊠2, (55) ?41 ⊠2?41 - = ⊠B B419 5? 45?⊠?41 3= ⊠⊠90⊠ XX.

(555)

⊠C-8 591= ⊠97D

M/T

B1-XX9X-. 71 ?X X4XX? 7334?B1534? - =XBX 3=1-? 05X?-9/1XXX /XXDX2?41 3= X4 X9 X-31 1⊠ 5⊠ ⊠4⊠B9.11∞B B45/4 4-⊠ 59/1≊010 ⊠9 5? - /⊠=A1 ?⊠ =1⊠19??41 0=B 2⊠≠1 A1=3∞⊠ J⊠⊠77.-/6052?-9/1⊠2≅=-?D≥5-7⊠≅=6524.⊠B⊠



⊠ ⊠1 ?41 3=⊠4⊠ ?⊠ /⊠8 ⊠- =1 ?41 1221/?5A191⊠2 ⊠2 ?41 ⊠⊠=65⊠4 . ⊠B 59 =17 ?5⊠9 ?⊠ ?41 12/93. ≥B≥*≥≥=-9≥B1=/≥≥70 =121=?≥ ?41 1-≥1≥2≥≥1-/4. ≥B≥?41 191=3D≥≥=10-90 ?41 1221/? ?4 \$24 - ⊠⊠9 8 ⊠?\$29 ⊠2 - 9 - **⇒**8⊠

XX,

⊠C 8 591= ⊠97D

M

(1321-01)

⊠C 8 591= ⊠97D