

: ( ) : ( )

○ ○ ○ ○

( 2 )	( 24 ) ( 80 )	( 150 )		인
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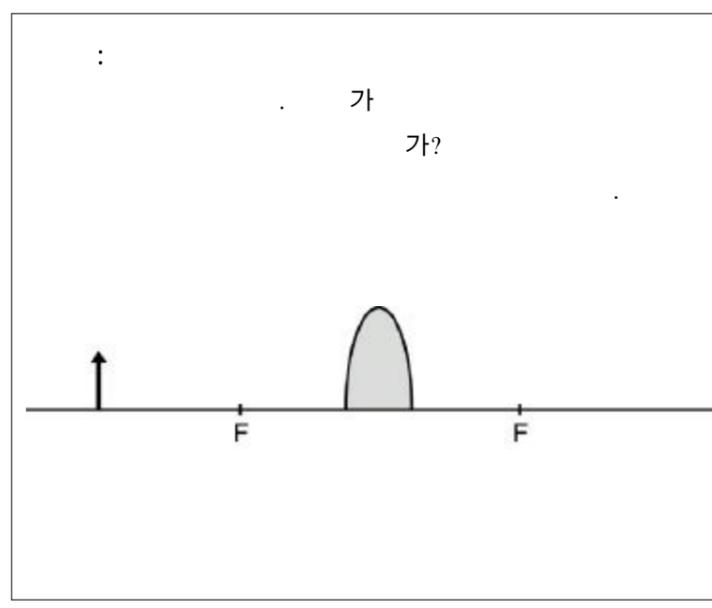
○ 가 .  
○ (=)  
○ 가  
○  
• 가  
•  
•  
1. 7  
•  
2가  
• ( 3 )

2. 가 가  
• 가  
?'  
• 가  
가  
가  
가 가  
가 가  
• 가 가  
2가 . ( 4 )

가	가
---	---

3. 가  
,  
,  
• ,  
• . ( 3 )  
3 , 2  
• :  
• :

4. 가  
,  
2가 . ( 3 )



• :

○ : ( )      ○ : ( )

5.

K “  
 ” 가  
 “  
 ”  
 . K 가 가  
 가

가  
 , ‘ , — 가  
 (3 )

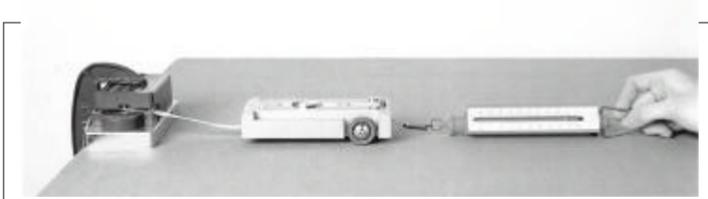
6.

(Bohr) (Rutherford)  
 , 가 가  
 1913  
 ,  
 .  
 ,

가  
 가  
 2 . (3 )

- :
- :

7. , ,



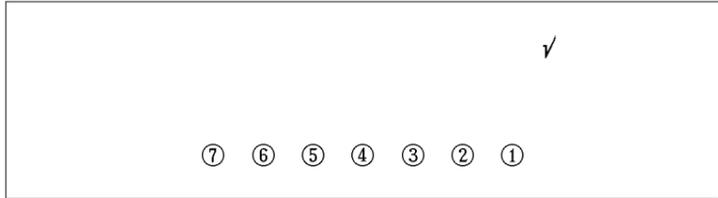
< >  
 1 :  
 1N 가  
 ,  
 2N, 3N, ... 가  
 2 :  
 2, 3, ... 1N ,  
 가  
 3 : ( )  
 4 :

1 2  
 , 3

- ( , , )
- 7 .) (4 )
- 1, 2 :
- 3 :
- 3 :

○ : ( ) ○ : ( )

8. Y 가 (semantic differential)

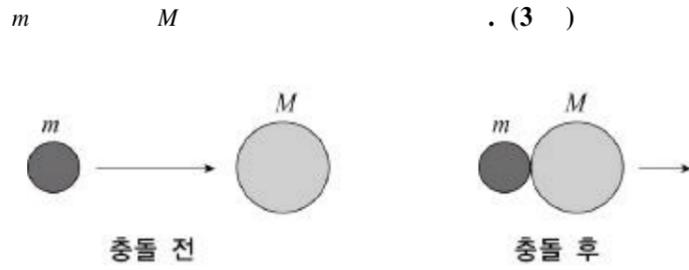


① ⑦ 1 7  
A, B, C, 3  
가 4.3, 5.3, 6.3 1 가 .  
3 가  
(Likert  
scale) 5 . (3 )

• 가:

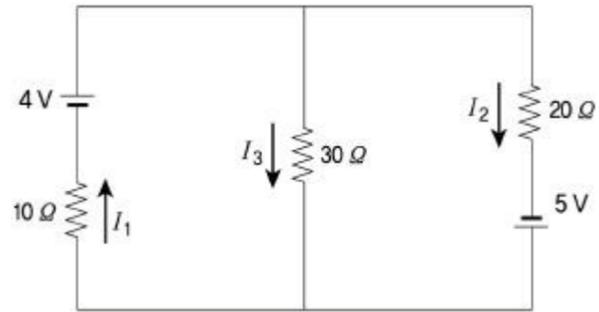
• :

9. m 가 M



.  
 $\frac{1}{4}$  ,  
. (3 )

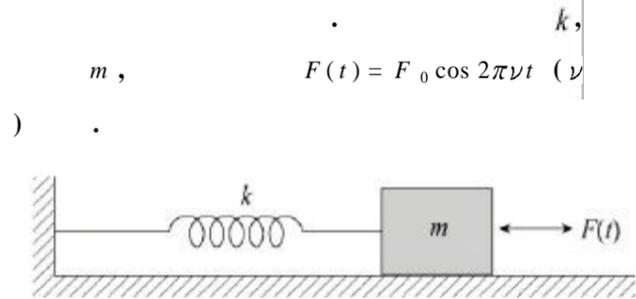
10. 30  
 $I_3$  . (4 )



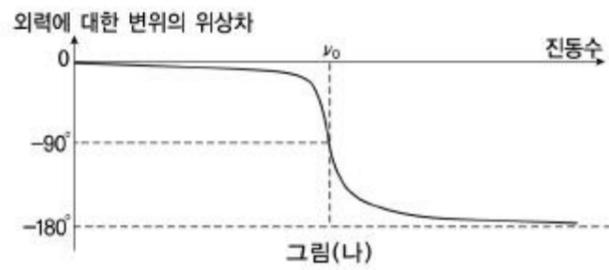
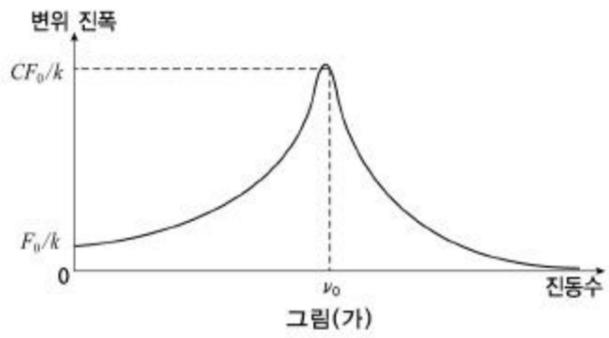


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15.

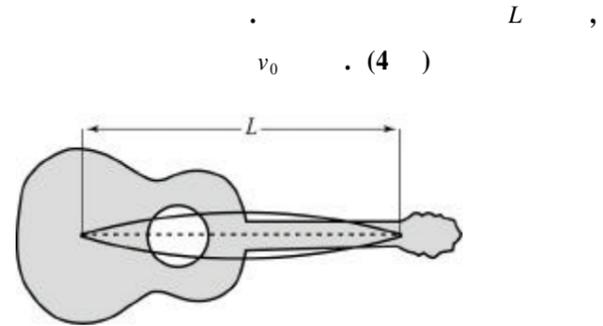


(가) , ( )  
 . ( ,  $F_0$  ) (3 )



- 1)  $\nu$ 가  $\nu_0$  가  $A_1, A_2$  ( ,  $F(t) = F_0$  ) ,  $\frac{A_1}{A_2}$  .
- 2)  $\nu$ 가  $\nu_0$  , ( , ) 가 .

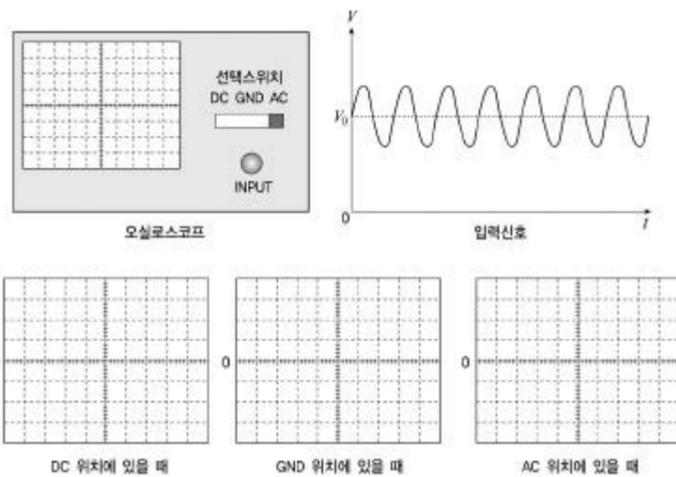
16.



- 1) ( ,  $v_s$  ) .
- 2) . ( , ) .

17.

AC , DC GND (3 )



: ( ) : ( )

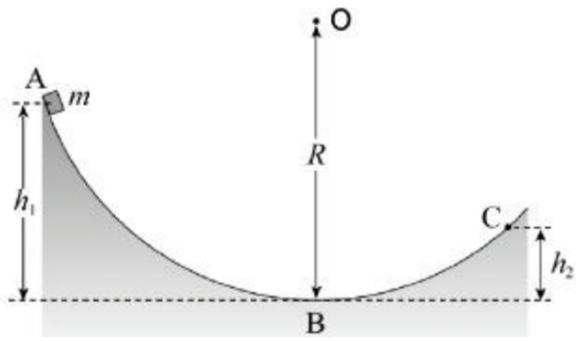
○

○

○

○

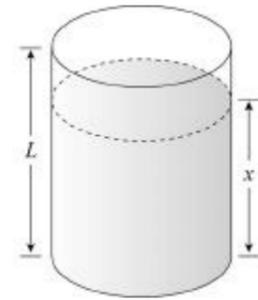
18.  $h_1$  A  $m$   $R$  가  
 가  $g$  ,  $\cdot$  ( ,  
 ) (3 )



1) B  $\cdot$

2)  $h_2$  C 가 가  
 $\cdot$  ( ,  $h_1 > h_2$  )

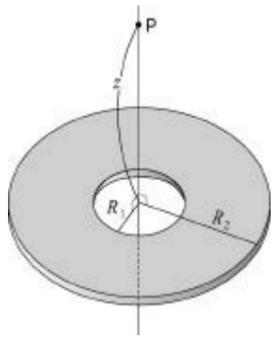
19. 가 가  
 $H$  가  
 $L$  ,  $\cdot$  ( ,  
 $M$  ,  
 $\frac{L}{2}$  .  
 가  $m$  ,  
 가  $x$   
 $\frac{x}{2}$  ) (3 )



: ( ) : ( )

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20.  $R_1$  가 가  
 $R_2$  가 가  
 $Q$  가  
 (4 )



1) P z

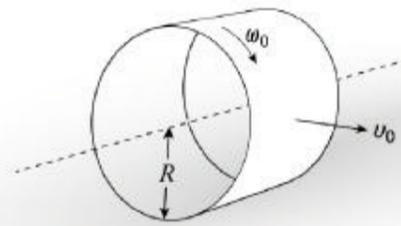
2)  $z \gg R_2$

21. 가  
 $t = 0$

$M, R$   
 $v_0, \omega_0$

가  $g, \mu$

(4 )



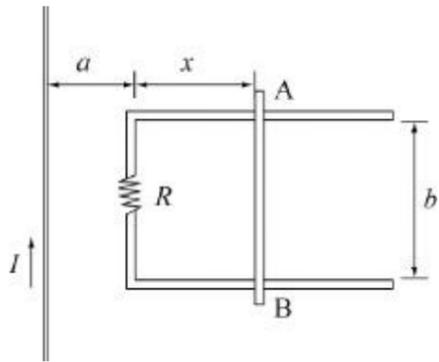
1) T

2)  $t = 0$   $t = T$   
 $S$

: ( ) : ( )

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22.  $I$  가  $R$   
 □  
 .  
 AB가  
 . (4 )



1) AB ,  
 , . ( ,  
 .)

2)  $t = 0$  AB  $x = 0$   
 $v_0$  ,

23.  $0 < x < L$   $0 < y < 2L$   $z > 0$   
 0  
 3  $m$  가  
 . ( ,  
 .) (4 )

