

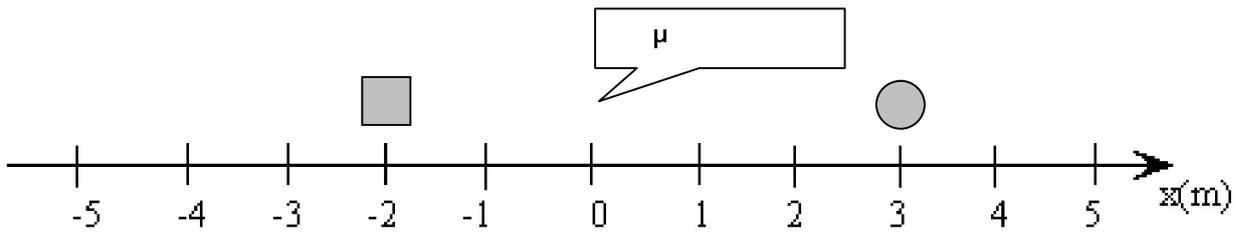
2013

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 : 7 / 6 / 2013 : 1 30
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 / : :

μ (3) μ (10)
2,5 μ : μ μ

1.) μ μ μ ; (.0.5)

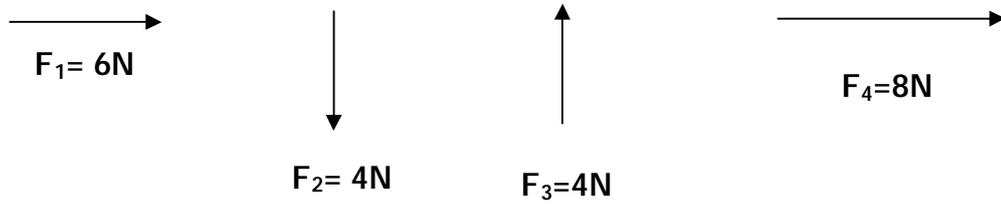
) μ : μ ,



i. ; (.0.5)
 ii. ; (.0.5)
 iii. μ μ , μ ; (.1)

2.) μ μ μ ; (.1)

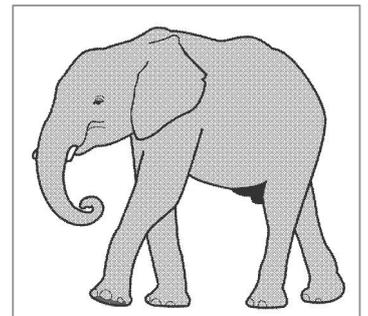
) μ : (.1.5)



- i. μ :
- ii. :
- iii. :

3.) μ ; (.1)

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) μ 3m^2 , 60 . μ μ . (.1.5)



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4.) $\mu \mu \mu \mu$;

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(.1)

) μ .

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(.1.5)

_____ :

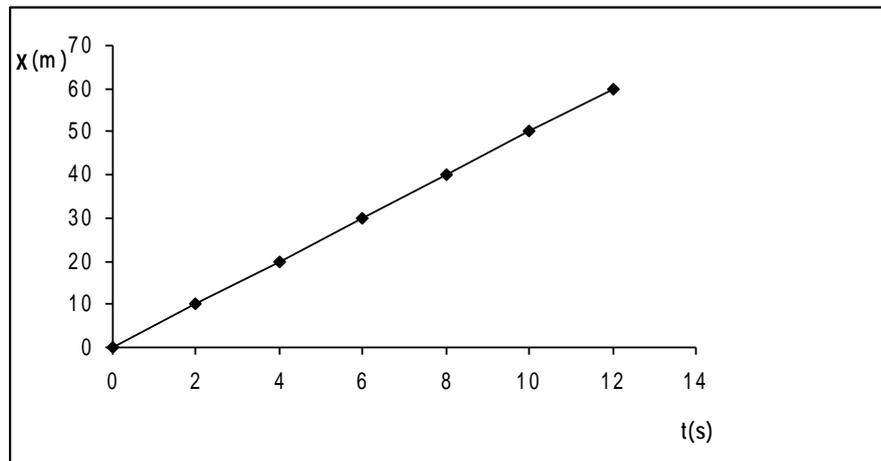
μ _____ (3) . $6 \mu \mu$.

1.) $\mu \mu \mu$; (μ ,)

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(.2)

) $\mu \mu$ -



i) ;

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(.2)

ii) (.2)

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2.) μ μ (.2)

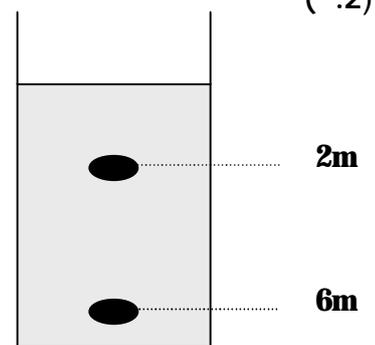
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) ; : d = 1000kg/m³ g=10m/s² 80m (.2)

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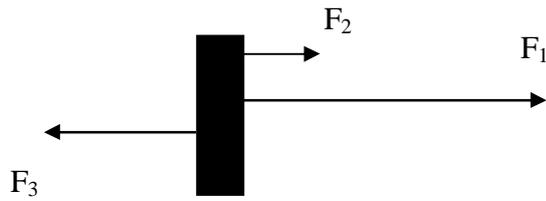
) μ 2m μ μ μ 40Pa. 6m; (.2)

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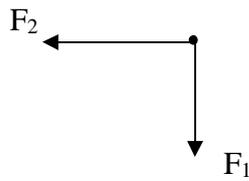


3.) μ μ μ μ ; (.1.5)

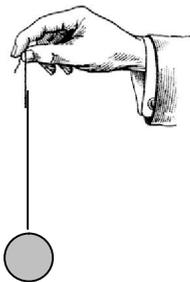
) i. μ μ μ μ μ (.1.5)
 μ : 1cm : 10



ii. μ F_1 F_2 . 1cm : 20 μ μ μ F_3 (.1.5)



) H μ μ μ . (.1.5)

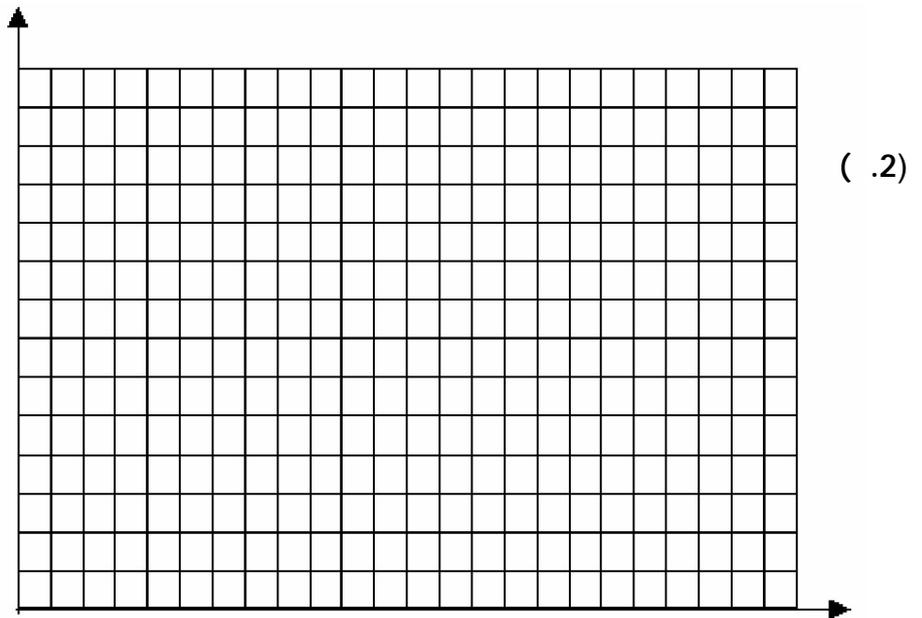


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4.) $\mu \mu$; (μ ,) (.2)
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) $\mu \mu$. μ
- $\mu \mu$

u(m/s)	t(s)
0	0
10	2
20	4
30	6
40	8
50	10



ii. (.2)
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_____ 12μ μ .
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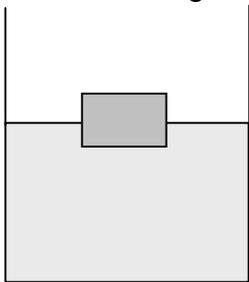
) μ μ ;

..... (.1.5)

) μ μ μ μ .

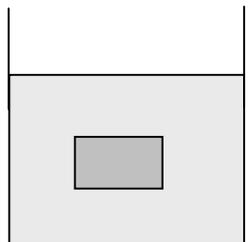
..... (.2)

) μ μ 3Kg μ μ .
 : $g = 10 \text{ m/s}^2$



..... ;
 (.1.5)

ii. μ μ μ μ . (.1)



) μ ; μ , μ

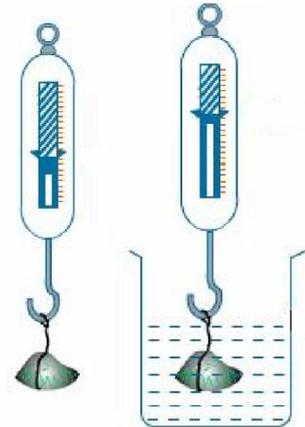
) μ (μ) μ _____ _____ (.0.5)

) $\rho = 1000 \text{ Kg/m}^3$ $g = 10 \text{ m/s}^2$

30 .

i. μ ;

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(.1)

ii. μ ;

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(.1)

iii. μ ;

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(.1.5)

iv. μ ;

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(.2)

2,) μ μ μ μ ;

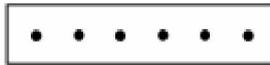
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(.1.5)

) i. μ ticker-timer

(.1.5)

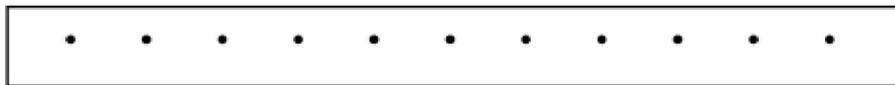
μ . μ μ
1/50 s. μ μ
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ii. μ ticker-timer.

(.2)

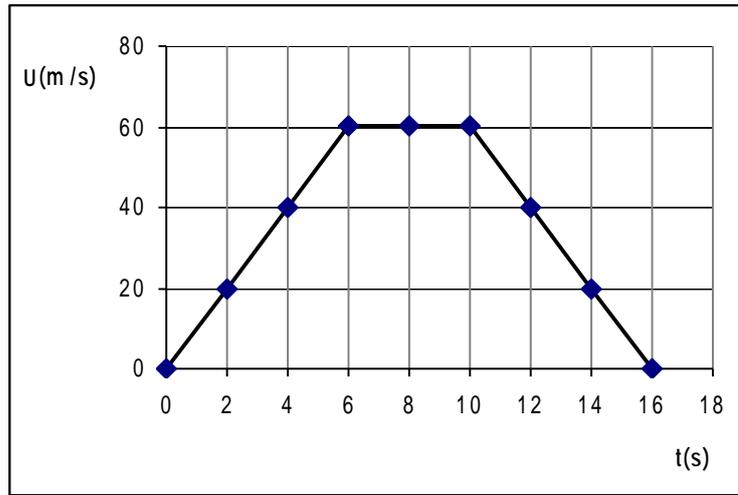


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)

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μμ



i. μ

(.3)

μ :

-) 0s – 6s :
-
-) 6s – 10s :
-
-) 10s – 16s :
-

ii.

μ 6s – 10s;

(.2)

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iii.

μ

0s – 16s.

(.2)

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