

1-

1-

1-

1-

1-

2-



1. $Q=0,1$

1

2. $m=6$
 $x_1=0$

$x_2=2$

$F(x)=2 \cdot x^3$

3. R

4. $R = 0,5$

$m = 10$
 $a = 2,04 \text{ / } ^2$



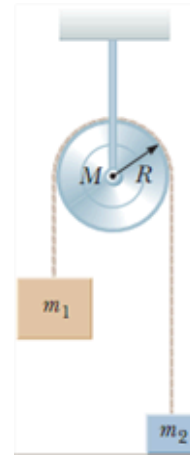
5. $Q=7$ $m=0,25$

$=36 \text{ /}$

?

6.

$m_1 = 200$ $m_2 = 20$
 $M = 50$



7.2 $Q=2,5 \cdot 10^{-8}$

$r_2=5$

$r_1=5$

8. $m=2$
 $x_1=0$

$x_2=2$

$F(x)=(1/) \cdot x^3$

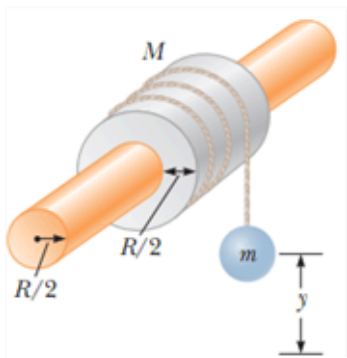
9. $U=100$

10. $r(t) = 7t^3i - tj$
 a) ;) ;)

$t_1 = 12$

11. $Q = 0,2$
 $= 0,6$

12. 12
 1



13. 2 0,1 / 0,2 /
 $F = 3,6$
 ?

14. 5 9 /
 $R = 128$

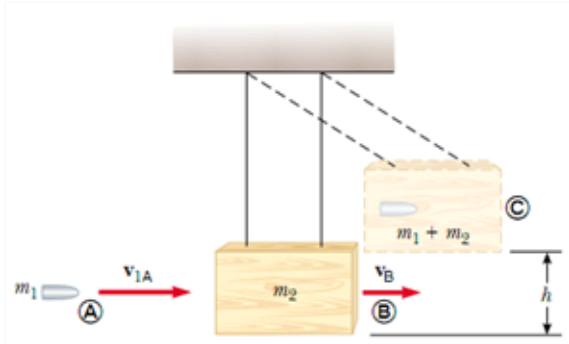


15. $r = 5$
 $= 1,2 /$
 ?

16. $r(t) = ti + t^2j$
 a) ;) ;)
 $t_1 = 2$

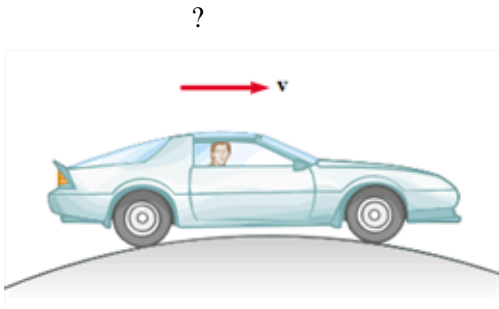
17. $Q_2 = -1$ 2 $Q_1 = +2$
 $r = 4$
 ?

18. $m = 10$ $v = 600 /$
 $M = 5$ h
 ?

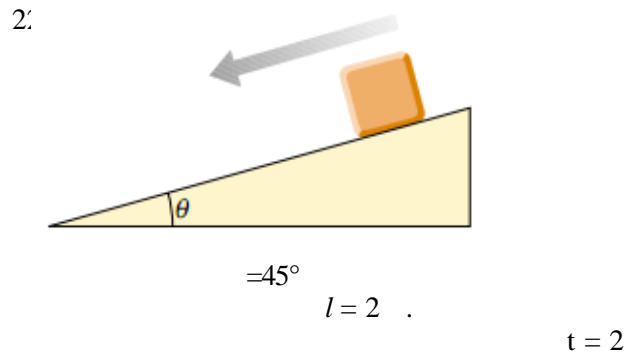


19. $r=6$ $.F=0.1 H$
 ?

20. $m = 1000$
 $R = 50$

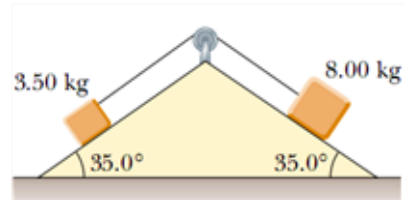


21. $R=2$ $Q=4$
 ?



23. R $(/ ^2)$
 t $a_n = na (/ ^2)$
 $: a = 5, n = 1.5, t = 2$ c. R

24. 2 $= 35^\circ$
 3.5 8
 $\cos 35 = 0.81$ $\sin 35 = 0.57,$



25. $0,1 / 0,2 /$
 $3,6$ $?$

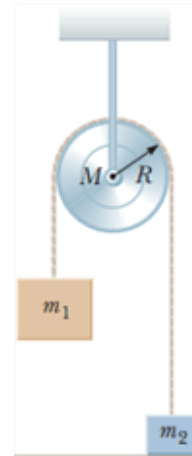
26. $m=6$ $F(x)=2 - x^2$
 $x_1=0$ $x_2=4$

29. $y(t)=t^2+2t^3$ $x(t)=2t-t^3$
 $t_1=0.2$

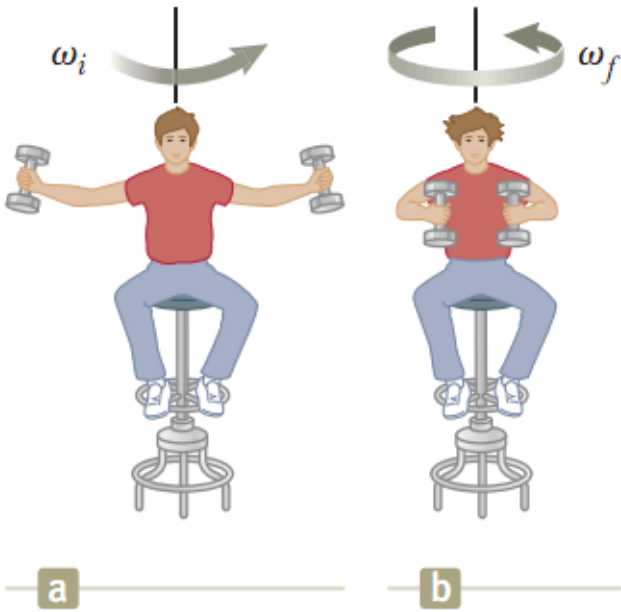
27. $Q_1=+1$, $Q_2=-2$, $Q_3=+3$
 $Q_4=-4$ $=10$

30. $m_1=200$ $m_2=20$
 $M=50$
 $?$

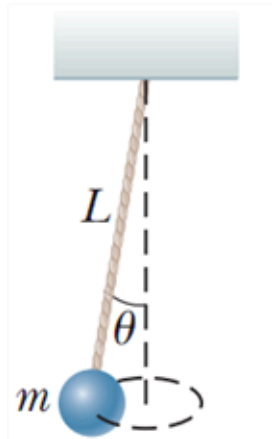
28. 5 -1.5
 15
 $J=10$
 120
 \times^2



31. $m=1$ $Q=10-8$
 600
 20 / $?$

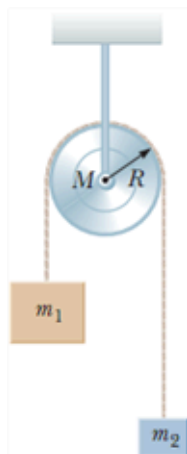


32. $m = 70$
 $\theta = 45^\circ$
 $L = 5$
 () ?



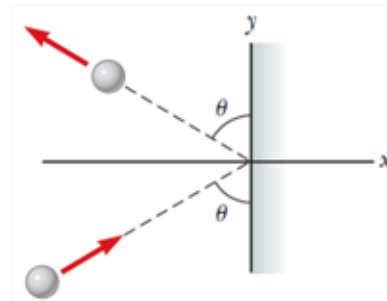
33. $m = 40$ $Q = 670$
 $\theta = 490$

34. $m_1 = 200$ $m_2 = 20$ $M = 50$
 $\theta = 100$



35. $r(t) = 3t^3 \mathbf{i} - 8t^2 \mathbf{j}$
 a) $\mathbf{i} \mathbf{j} - x \mathbf{y}$
 ;)
 ;)
 $t = 20$

36. $V = 8$ / $m = 300$
 $\theta = 60^\circ$



37. $m = 5$ $Q = +4 \times 10^{-8}$
 $\theta = 100$ /

38. R = 1

6

41.

$$r(t) = t^2 \mathbf{i} + 3t^2 \mathbf{j}$$

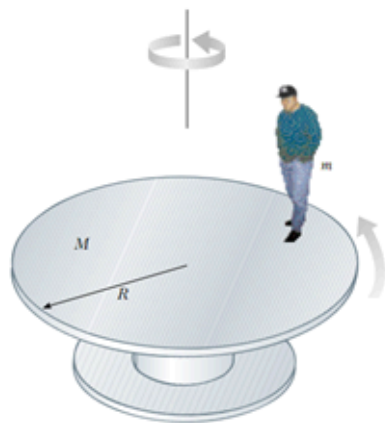
80

J = 120

a)

;)

?



;)

t=10

42.

8 /
d = 2

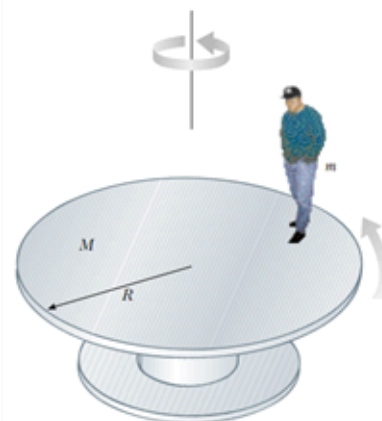
70

10 /

39.

(=4) 2

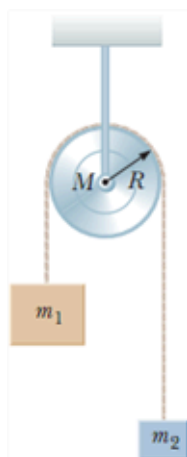
$$Q = 3,2 \times 10^{-5}$$



40.

m₁ = 200 m₂ = 30

2 / 2



43.

$$S = A + Bt + Ct^2 + Dt^3$$

$$= 0,14, D = 0,01.$$

/ 2

?

?

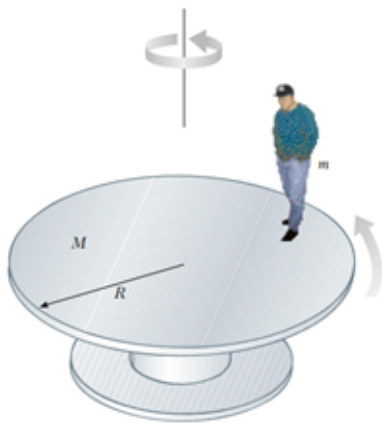
1
1

44.

15 /

25 /

70



45.

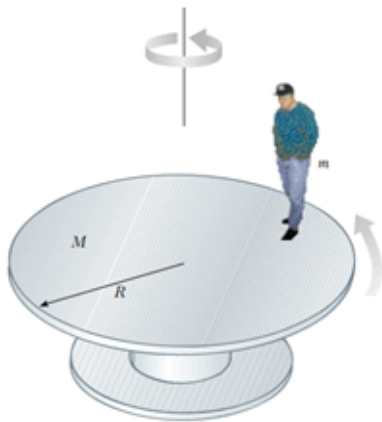
$r=5$
=1,2 /

46.

15 /

25 /

70 ?



47.

$r=60$

$F_1=70$

$F_2=160$

q_1 q_2

48.

$R = 1,5$

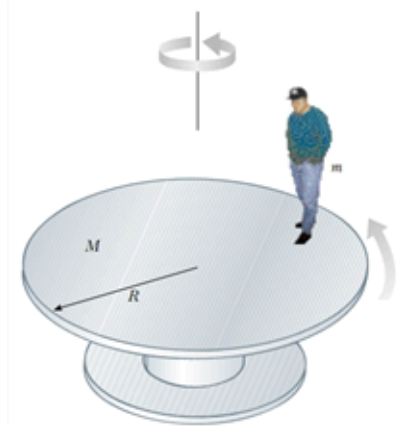
180

10

/

60

?



49.

2

4

2

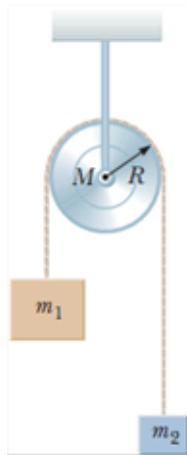
?

50.

$m_1 = 200$

$m_2 = 20$

$M = 50$



51.

5

9 /

$R = 128$



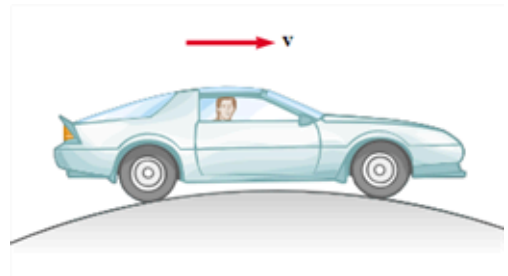
52.

$m = 1000$

$R =$

50

?



53.

$R = 1$

6 /

80

$J = 120$

$?$
 2



54.

$r(t) = 3t^3 i - 8t^2 j - x$

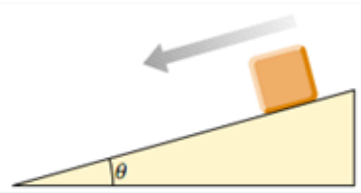
a)

;)

;)

$t = 20$

55.



$\theta = 45^\circ$

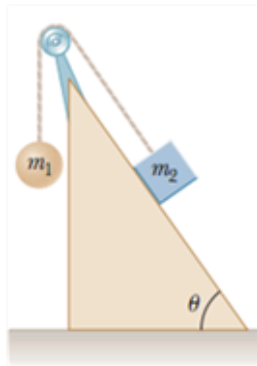
$\mu = 0,03$

?

56.

45°

2



57.

$F_1 = 120$

$r_2 = 10$

$r_1 = 5$

$F_2 = 15$

58.

$V_2 = 90$ / $3/4$

$V_1 = 60$ /

$\langle \dot{V} \rangle$

59.20

270



60.

$r(t) = t^2 \mathbf{i} + t^2 \mathbf{j}$

$\mathbf{i} \quad \mathbf{j} \quad x \quad y$

(x, y, z)

$t_1 = 2$