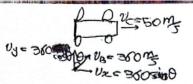
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فيزيد ل
Tug Teels: 191/10/4811
                                                                                    المعرفام خانط دلكي: امين علاص
يكشنب وسهسنن
                                                                                Molo MENO: was chim
                                                      ترین سری اقل
 روزوساعت كاس ، ١١ الى ١٥٠٠ ما
                                 xiA=0, VIA=BOM, xiB=ViB=0
                                                                                  معلومات مسئل عبرت انداز:
                                 VA = 3 3 , ViB= ViA=0, |aB| = 0.4 72
           = (xi + vixt+ \frac{1}{2}at2)i + (vi + viyt+ \frac{1}{2}ayt2)j
                                                                                                        : do
          \vec{r_A} = (0 + 3t + 0)\vec{i} + (30 + 0 + 0)\vec{j} = (3t)\vec{i} + 30\vec{j}
           13 = (0+0+ \frac{1}{2} asino t2) i + (0+0+\frac{1}{2} aosot2) i = (0/2 sinot2) i
                                                                                           + (012cas 0 t2) j
              XA= XB => 3th = 0/2 shoth => sinoth = 15 => th = 15 sino *
               \forall A \in \forall B \Rightarrow \exists 0 = 0/2 \text{ as } \theta + t_h^2 \Rightarrow \cos \theta = \frac{150}{t_h^2} \Rightarrow \frac{\cos \theta}{\sin^2 \theta} = \frac{2}{3}
     => 25h 2 = 3000 => 2(1-0520) = 3000 => 20050+3000-2=0
  \Delta = 25
\Rightarrow \begin{cases} \cos\theta = -\frac{3+5}{4} = \frac{1}{2} \circ (\theta < 90^{\circ}) \theta = 50^{\circ} \end{cases}
\Rightarrow \begin{cases} \cos\theta = -\frac{3-5}{4} = \frac{1}{2} \circ (\theta < 90^{\circ}) \theta = 50^{\circ} \end{cases}
                    2,7
                                                                                   معلومات مسئله عبارت اندار :
                                                     yi = 217m
                                                     20 gy 50, agy 5 -9,8 752
                                                     Vi 250, Viss 2,4 mg, a 25=+2/2 mg2
                 y = yi+ vit + 1 at2
                 3 == 217+0+ \frac{1}{2}(-9,8) t^2 = -4,9t^2 + 2,7 \frac{21}{2} -4,9t_3+2,7=1,15,2+2,45
                  955 = 0+2/4t+ \frac{1}{2}(2.2)t^2= 1/1t^2+2/4t
         \Rightarrow 6 th^{2} + 2/4 th - 2/7 = 0 \Rightarrow 20 th^{2} + 8 th - 9 = 0 \Rightarrow \begin{cases} th = -\frac{8+28}{40} = 0.55 \\ th = -\frac{8-28}{40} \times \frac{1}{40} = 0.55 \end{cases}
                                                          = 0/55 th = 0/55
                              DF 2= -4,9 th +2,7= -4,9 (0,25)+2,7=1,475m (
                              die = 2,7m
                          → Dy 2 = 3p - 9i = 1,475 - 2,7 = -1,225 m
                                                                                        صدارح المقه
        re il 1 vous
```

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: lede
                                                                                       V= 0 50
                                                                                                                                d>0 0>0
                                                                                             $ x(0) = 0
             V= dx = dx = dx = olx = olx dx
           \Rightarrow t+c_1 = \frac{2}{\alpha}\sqrt{x} + c_2 \Rightarrow \frac{2}{\alpha}\sqrt{x} = t+c \xrightarrow{\text{initial and}} c=0 \Rightarrow \sqrt{x} = \frac{\alpha t}{2}
           = v^{t} = a\sqrt{z} = a(\frac{at}{2}) = \frac{a^2t}{2}
                                                                                                                                          \int \frac{dt}{dt} \frac{dv}{dt} = \frac{d}{dt} \left( \frac{\alpha^2}{2} t \right) = \frac{\alpha^2}{2}
                                   is = (ats)2 = S=(ats)2 = NS= ats
                                      \Rightarrow t_S = \frac{2\sqrt{S}}{d} \Rightarrow v_{avg} = \underbrace{\frac{S}{2\sqrt{S}}}_{2\sqrt{S}} = \underbrace{\frac{d\sqrt{S}}{2}}_{2}
                        a=32/21+4+1, 1=201+401, 1=51+21
                                                                                                                                                                                                 علومات مسلك عبارت انداز:
                a = \frac{dv}{dt} \Rightarrow dv = adt \Rightarrow \int dv = \int adv = \int ad
           30 (30 th (2t) j. 51+2) = (30 + 5) i+ (2t+2) j
       2/2(t) = S32/2dt = 3 S2/2dt , 2/2(t) = S4tdt = 2t2+C
                                                                        ) ide pilosomili de leader extent se est)
        2/(0)=2 => c=2
         ey(+)=2+2
         x(t)= [ vx(t) dt = [ 5e(3t) dt = \frac{5}{3}e^{3t} + 9 \frac{mod}{2} \cite[ 1+\frac{5}{3} = 20 \]
         y(t) = \( \gamma\)(t)dt = \( \left(2t^2+2)\)dt = \( \frac{2t^3}{3} + 2t + \cdot 2 \) \( \frac{1}{2} \) \( \frac{1}{2} \)
       =>x(4)= == e+ == (m), y(4) = 2x64+8+40=48+128 (m)
                               1x(4) = 271000m
                                                                                                                                                      12(4) = 91 m
                                                                                                                   ViB = - 3mg
                                                                     VIA =+4 mg
                                                                                                                                                                                              معلمات مسئله عبر انداز:
AO AMS
                                                          375-0B
                                                                                                                 XIA = XIB
                     ra= (4+)i+ (-1-9+2)j
                                                                                                                  ra = (-3t) + (1)が
                                                                                                                                                                                                                                                        عل:
                        va = 4i -(0t)j simple es.
                                                                                                                    VA · VB =0 = -12i+(g2ta) j=0
                          では = -3で-のも)j
                                                                                                                                                                            92 to = 12 => to = 12
                                                                                                        d=/(7(/1/2))2 = 7/1/32
              7 = 4 [12] i' -(6)j'
                                                                                                                                                                                                                     华品
                                                                                                                                                                                  = 2/42m (
             ではまず( 製) i -(多) j
                                                                                                                                                                     John colocials
                                                                                                                                                             عي دبور بسرعت ها برهع
                1 11 / sie
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Vixe Voto cost XI=0
                                                             فلومات مسئل عبارت لندار
          vis = 2,5mg
    P= ((v0+86 cosx)+)i+(265mxt-19+2)j
 R = 500 war alle = 3 4=0 = 0 05 mg th - 20 th = 0
 => th (20 snx - 19th) = 0 } th = 0
 => R = (v_0 + v_0 \cos \alpha) \left( \frac{2v_0 \sin \alpha}{9} \right) = \frac{2v_0^2}{9} \left( 1 + \cos \alpha \right) \left( \sin \alpha \right) = \frac{v_0^2}{8} \left( 2 \sin \alpha + 2 \sin \alpha \cos \alpha \right)
 => R= 202 (25nd + 51h2d) (5/white R= 202 (2050+2052d)=0
  -> 0052x = -005d = 005(11-x) [2x=2k11+11-d => d= (2k+1)]1
2x=2k11-11+x=> d= 2k11-11 ×
            o < a < 90 = prad = 60°
                                          20 = 3i+4j
 00=81 = 3i+4i
                      v = \frac{2\pi r}{T} \implies r = \frac{vT}{2\pi} = \frac{5x5}{2\pi} = \frac{25}{2\pi}
 قبل الروبراس حل سنده است.
                       a_c = \frac{v^2}{r} = \frac{25}{\frac{25}{37}} = \frac{27}{52} = \frac{27}{52} = \frac{25}{37}
   4=0 - vic 3i+4j
                                     DT = 00 -01 = -60-85
                                        1001 = 162+82 = 10 mg Cang = 2 mg = 2 mg =
   t2 = 2,55 => 02 = -3i -tj
     (ceam) @ == po To more
                                                             معلومات مسلم عبابت اند :
                                                    2000m = 3000 & 2000 & 2000 Ciduo
                                 سرعت الم
Wto 3600 = May = Mto +3600 VW
             حر براست المتداعات 2 كيلومتر تامان اقال طي كندوسيس وكيلومتر ديك رادر عن ع على ميكند.
                             2 wtg= 3000m (35000 = (86+4W) tg = 5000 m
Chipiet = 36000M + ...
                                                   (20w+ 5) te= 5000 m
        Ow (3600+tp) = 3000
                                                      => +F= 5000 *
     * 0W (3600 + 5000 )= 3000
   ew (72002w+8000)=3000 => 7,22w2+ 72w= 62w+5 => 7,22w2+1.2w=5=0
                               v_{b} = \frac{5}{12} + \frac{5}{9} = \frac{35}{36} \text{ m} + \frac{315 \text{ km}}{3}
  = 12W = 5 mg (3)
```



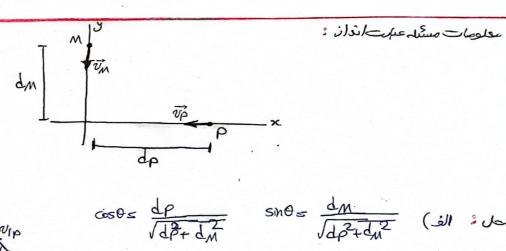
معلومات مسلم عناس الدارية

10

على - زمان كم تلوله به تقييت الكليرغورو كند سرعت ك ما لا كاهشم يا بد يعن بري 88228 عورسد. ما وحب الدك سوراخ هاى العباد شده ورست روروى هم هستند ما براس نتهم م كنورم كه عبام، م كم كسي درمد وال ٥٤ (ود درهان سي برونورد اقل ودوع) ما جاب سي للوام درمانشون سماساس

$$\Delta x_{B} = \Delta x_{C} \implies 288^{\circ} \Rightarrow 288^{\circ} \Rightarrow 50\Delta t \implies 500$$

$$\Rightarrow 0 = 500$$



 $v_{ip} = v_{p}\cos\theta = \frac{v_{p}dp}{\sqrt{d_{p}^{2} + d_{n}^{2}}}$ V2p= up sno = up dm

$$v_{IM} = v_{M} \cos \alpha = \frac{v_{M} d_{M}}{\sqrt{d\rho^{2} + d_{M}^{2}}}$$
 $v_{2M} = v_{M} \sin \alpha = \frac{v_{M} d_{P}}{\sqrt{d\rho^{2} + d_{M}^{2}}}$
 $v_{2M} = v_{M} \sin \alpha = \frac{v_{M} d_{P}}{\sqrt{d\rho^{2} + d_{M}^{2}}}$

F 1/4 voes