2020/01/04

$-372+787 = 415km$

$\frac{415\ km}{34{,}98L} = 11{,}863\ \frac{km}{L}$

787 km

R$ 60 — 14,29 R$/L

13.98L

372

R$ 150 / R$ 4,29 R$/L

34,98 L

$2y = 11 + 10x$

$y = \left(\frac{11+10x}{2}\right)$

$20\left(x - \left(\frac{11+10x}{2}\right)\right)$

$20x - 5{,}5 + 5x$

$20x - 110 + 100x$

$\sqrt{\frac{x^n}{x^{n-2}}} = \left(\frac{x^n}{x^{n-2}}\right)^{\frac{1}{2}} = \left(\frac{x}{x^{-2}}\right)^{\frac{1}{2}}$

$(x)(x^{-2}) = x^{1-(-2)} = (x^3)^{\frac{1}{2}}$

$\sqrt[2]{(x)^3} = x^{3-2} = x$

20/06/2018 p.666

$4x + y = 7$

$y = 7 - 4x$

$4x + (7 - 4x) = 7$

$4x - 4x = 7 - 7$

$0 = 0$

$x - 2y = 4$

$x = 4 + 2y$

$(4 + 2y) - 2y = 4$

$0 = 4 - 4$

$0 = 0$

$x - 2(7 - 4x) = 4$

$x - 14 + 8x = 4$

$9x = 14 + 4$

$x = \frac{18}{9}$

$x = 2$

$4(2) + (7 - 4(2)) = 7$

$8 + (7 - 8) = 7$

$4x + y = 7$

$y = -(4(2)) + 7$

$y = -8 + 7$

$y = -1$

15/06/2018

$\left(\frac{x}{\frac{1}{x^2}}\right)^{\frac{1}{2}} = \frac{\sqrt{x}}{\sqrt{\frac{1}{x^2}}}$

$\sqrt{\frac{x^n}{x^{n-2}}} = \sqrt{\frac{x^2}{x^{2-2}}} = \sqrt{x}$

$\sqrt{\frac{x^2}{x^{2-2}}}$

$= x$

LOGO:

$\sqrt{\frac{x^n}{x^{n-2}}} = \left(x^{n-(n-2)}\right)^{\frac{1}{2}} = (x^2)^{\frac{1}{2}} = x$

BEM COMO:

$\sqrt{x^{n-(n-2)}} = \sqrt{x^2} = x$

はい　はな　なん
HA i　HA NA　NA-Ni

うはなおに
U HA NA O Ni

~~おはよ(う)お~~　おはよう
O-HA-i-O　O-HA-yo-U

はい　はい　はい
HA-i　HA-i　HA-i

おはいはう　はい
O-HA-i-yo-U　HA-i

おはいはう　はい
O-HA-i-yo-U　HA-i

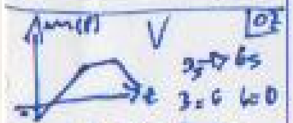
おはよう　おに
O-HA-yo-U　O-Ni

$= -27 + 6 \ldots -27 + \ldots$

DIST $= 12 + 15 + 9 = 36$

DISP $= -27 + 9 = -18$ ✓

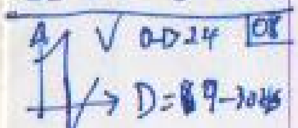
[07]



$D = 9 - 6$

$d = 6 \quad 0 - 6 = -6$

[08] 0-24



$= -6 \quad d = 9 + 30 + 15 = 54$

INCREMENTOS

$\Delta x = x_2 - x_1$

$\Delta y = y_2 - y_1$

$\Delta x = 2 - 4 = 2$ $\quad (4,-3) \rightarrow (2,5)$

$\Delta y = 5 - (-3) = 8$

$(5,6) \rightarrow (5,1)$

$\Delta x = 5 - 5 = 0$

$\Delta y = 1 - 6 = -5$

COEFICIENTE ANGULAR DA RETA L:

$\frac{\Delta y}{\Delta x} = m$

$P_1 = (x_1, y_1)$

$P_2 = (x_2, y_2)$ sejam:

$L_1 \perp L_2$ perpendiculares

$m_1 m_2 = -1$

$m_1 = -\frac{1}{m_2}, \; m_2 = -\frac{1}{m_1}$

$m_2 = tg\,\phi_2 = -\frac{h}{a}$

$m_1 m_2 = \left(\frac{a}{h}\right)\left(-\frac{h}{a}\right) = -1$

$m_1 = tg\,\phi_1 = \frac{a}{h}$

$m_2 = tg\,\phi_2 = \frac{-h}{a}$

[01]

1] a) $A(1,1), B(-1,-1)$

$\Delta y = (-1-(+2)) = -3$

$\Delta x = (-1)-(1) = -2$

b) $A(-3,2), (1,-2)$

$\Delta x = -3-(-1) = 1-(-3) = 2$

$\Delta y = -2 - (2) = -4$

[02]

$A(3,-1), B(-8,1)$

$\Delta x = -8 - (3) = -11$

$\Delta y = 1 - (-1) = 2$

$A(0,4) \quad B(0,-2)$

$\Delta x = 0 - 0 = 0$

$\Delta y = -2 - (4) = -6$

[03]

$A(1,-2) \quad B(2,1)$

$\Delta x = 2 - 1 = 1 \quad m = \frac{3}{1}$

$\Delta y = 1 - (-2) = 3$

$A(-2,-1) \quad B(1,-2)$

$\Delta x = 1 - (-2) = 3 \quad m = \frac{-1}{3}$

$\Delta y = -2 - (-1) = -1$

GRÁFICOS (PAPEL MILIMETRADO)

$\Delta x = 1 - (2) = -3$

$\Delta y = 3 - (3) = 0 \quad m = \frac{0}{-3}$

b) $A(1,2) \quad B(1,-3)$

$\Delta x = 1 - 1 = 0 \quad m = \frac{-5}{0}$

$\Delta y = -3 - 2 = -5$

PHYSICS [06]

$\frac{10\,km/h}{100\,min} \quad \frac{8\,h}{22.8\,min}$

$\frac{8}{22.8} \times \frac{10}{1000} \times \frac{1}{60} =$

$13 + 0.7133333$

14 : 1:33

14 : 12 h

[07]

one shake $= 10^{-8}$ s

0,000 000 02 5

$365 \times 24 \times 60 \times 60$

$= 3.1536 \times 10^{7}$ ✓

yes

b) 10^{-4} $\quad 10^{-4}$ × ...

$x = 8.64$ s ✓

PHYSICS 18/10/2018 [08]

$\frac{0.01}{2} = 0.005$

[09]

Nothing ... the clock stay turned or it will just be more inaccurate

28/11/2018 [10]

$y = x^2 + 2x$

$\frac{dx}{dy}$, when $x = 1$

$= \frac{1-0}{y-0} = \frac{1}{x^2+2x} = \frac{1}{1+2}$

$y = 1^2 + 2(1) = 1 + 2 = 3$

$y = \ldots x + (1) = 3$

$\frac{1}{3} = \frac{dx}{dy} \quad x = 1, \; y = 3$

$P = 1,3 \quad P' = 3, \ldots$

$h = 2 \quad QP' = (2x + x^2)$

$QP = (2x + x^2) + 3$

~~$QP' = (2(3)+3^2)+3 = 18$~~

VERTICAL ...

$QP' = (2(h)+h^2) - 3$

SLOPE $= \frac{(2(h)+h^2)-3}{h}$

$h = 2 \quad S = \frac{(2(2)+2^2)-3}{2}$

$S = \frac{4+4-3}{2} = \frac{5}{2} = 2.5$

$\frac{dx}{dy} = \frac{3-1}{(3+9)-(2+1)} = \frac{2}{12}$

$\frac{dx}{dy} = \frac{1}{6}$

$y = x^2 \quad x = 3$

h from P $x = 3 + h$

whence $y = (3+h)^2$

$VR = QP' = (3+h)^2 - 3 - h$

Slope of secant $= [(3+h)^2 - 9]/h$.

Since $(3+h)^2 = 9 + 6h + h^2$ slope $=$

$(9 + 6h + h^2 - 9)/h$

And since $9 - 9 = 0$

$\frac{9 + 6h + h^2 - 9}{h} = 0$

$\frac{9 + 6(1) + 1 - 9}{1} = 6$

$\frac{9 + 6(0.1) + 0.01 - 9}{0.1}$

$= 6 + 0.1$

$x = 3$ SLOPE $= 6$

$y = x^2 + 2x \quad x = 1$

$x = 1 + h$

$y = (1+h)^2 + 2(1+h)$

$y = (1+h)(1+h) + 2 + 2h$

$y = (1 + h + h + h^2) + 2 + 2h$

$y = 1 + 2h + h^2 + 2 + 2h$

$y = 4h + 3 + h^2$

$QP' = (4h + 3 + h^2) - \ldots$

$QP' = 3h + 2h^2$

$S = \frac{(4h + 3 + h^2) - (1+h)}{h}$

$S = \frac{3h + 2 + h^2}{h}$

$S = \frac{3(1) + 2 + (1)^2}{1}$

$S = (3 + 2 + 1)$

$S = 6$

$S = \frac{0.3 + 2 + 0.01}{0.1}$

$S = \frac{2.31}{0.1} = 23.1$

$S = \frac{4(0.1) + 3 + (0.1)^2 - (1.1)}{0.1}$

$S = \frac{0.4 + 3 + 0.01 - (1.1)}{0.1}$

$S = \frac{4.31}{0.1} = \frac{2.31}{0.1} = 23.1$

$S = \frac{3(3) + 2 + (3)^2}{3}$

$S = \frac{9 + 2 + 9}{3} = \frac{20}{3}$

$S = 6\frac{2}{3}$

$x = b$, $x(t) = b - c$

f(posiçao)

$x = 4.0 - 6.0t^2$

$f(x) = -(4.0 - 6.0t^2)$

$f(x) = -4.0 + 6.0t^2$

$f(x) = -4.0m + 6.0t^2$

$f(x) = (4.0 - 4\emptyset) - 6.0t^2$

~~$f(x) = -6.0t^2$~~

$f(x) = 4.0 - 6.0t^2$

$f(x) = 4.0 - 0 = 4.0$

$\Delta y = -6.0t^2$

$$\frac{4.0}{-6.0^{t^2}} = \frac{4}{6} \times t^2$$

$t = 0$, $-\frac{4}{6} \times 0^2 = 0$

$f(x) = 0$, $t = ?$

$f(x) = 4$, $t = 0$

$f(x) = 4 - 6(t^2)$

$f(x) = 4 - 6(0.1)^2 = 4 - 0.06 = 3.94$

$0.81642 = t$

$f(x) = 1.62457600 \times 10^{-4} = 0{,}00016$

$t = 0.8165$, $f(x) = -3.35 \times 10^{-5} = 0{,}0000335$

$$\int_{t=0{,}0000335}^{t=0{,}00016} V = 0 \qquad \frac{\rho}{t} < 0 \qquad \vec{V} = 0 \qquad \overleftarrow{V} = N$$

Hallyday cap 2 ex 7 05/12/2018