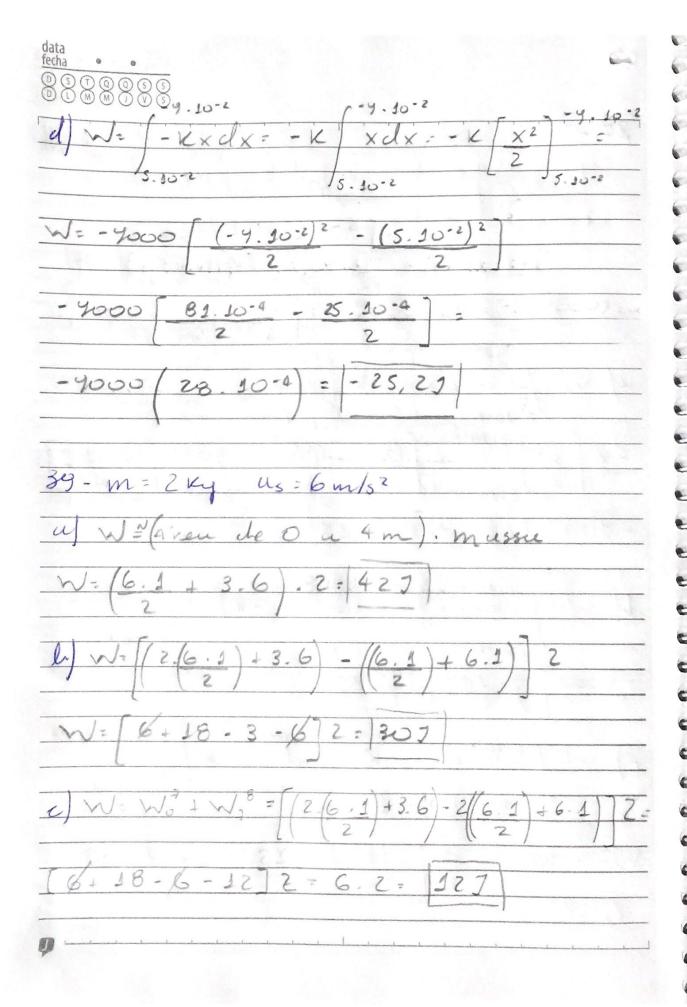


T-P=m.u 15 m T: m (y+ y/10) 15 = 11.642,407 W= P-h= m.y.h. cos 180°= -72. 9,8. 15=-10.5847 c) Ky = 1 m /2 V/2 = 45 = 2u. As => V/2 = 9 . 15 = 34 Vr=3-9.8=29,4 Kg=1 m Vp= 1. 72. 24, 4 = 1058, 47 1) V= 29,4=> V== /24,4 = 5,42 m/s

29-
F7-K.X
-360=-K.(0,04)
K: 360 = 90.202 =
4.30-2
9.203 N/m
(3.20-2
uf W= - K x dx = - K x dx =
5.30
- K X2 = - K (0,03)2 - (0,03)2 = - 4000. [-36.30.4]
2 5.10.2 2 2 2]
- 4000 (-8.10-4) = 7,27
M W= 1-8.40.2
W W= - KX dx = - K X dx = - K X2 =
5.40-2 5.10-2
-4000 -36.20-4 = 17,27
c) W= [-5.10,2 dx=-K xdx=-K x2] -5.40.2
$\frac{1}{2}$
5.10.2 /5.40.2
W= -4000 0]= 01
2 -



$\frac{d}{d} = \frac{1}{2} \frac{1}{16} = \frac{1}{2} \frac{1}{16} = \frac{1}{2} = \frac{1}{2$
4C= 1 M-V'=> V= /42 ~ 6,48 m/s
The sales of the s
Sent do positivo, diregão horizontel.
e) W= Kx - K; => \W= Kf
30: 1 ml. V2=> V= 130 ≈ 5,47 mls
F
30 4 / 0
Bentido positivo, direjão horizontel
F 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
f) W= Kf. Ki => W= Kf
12= 1 m. 12 => V= JIZ = 3,46 m/s
2 m. V = V = 2 2 3, 76 m/s
sent, do positivo, diregão horizontal
- Gas is found

.

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9

(3)

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(3)