

Fa: masin 01 + macasos

FK = - NM MgcosOI

1 -- mgcase î

12 + 6 + 1x6) . (2010) + 10 0 112 mg - (2)

- Maline . dx

- 9.8.4. 1 3 . 58.8 I

(216+1x6). 1000pm/4- 1X1)

- JIM Macasa dx

· -0.2 - 9.8 4 · 13 . 3 - - 20.36 J

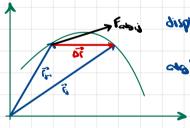
124 · O

12+ Un+ Un = 38.44 = DN = 1 = 4.35m/s

139 Work Dane by Non-constant Force Mong Monthally Relly

position vector r(4)

non-constant force Feets on point mess on 30 curred peth



displacement between tin and ti.

cas love in interval Finance

Suggest AW; Fing. Dig

TOLL COM . WH . Z DH; . Z FEW. DF;

() - 1/m Z Febris - Dr = 1 F. dr

inhailesimes yeder hine element Load and to highe of trapest

7d to limit

13.9.1 Clark in Cartesian Courd.

356+216+1x6 = 76 F. F. 1+ F. 3+ F. R dw Frdx + Frdy + Frdz

M = 29M . 24.94. 24 (E898 + E898)

13.9.2 Work Interest in Cylindrical courd.

di. drî + doê + dzk

F. F. F. F. B. B + E. R

JW - F. dr = Frdr + Fodo + Fedz

W = [(Frdr + Fodo + Fzdz)

13.11 Clock-Kinehe Energy Mediem in 30

F= m. a = m (axî+a,î+a,k)

]F. dr =] (Fxdx+F1d4+F2dz)

= 1 m(121-120) + 1 m(121-120) + 1 m(121-120)

= WF - DK

1311.1 Installaneous Pares

P. du. Fd. F.J. dk - 1m d 1.3

= 1 m(2 dv v) mav. F.v