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Subject: Sols Tuliul

Chapter: Sexual dip loi

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if 
$$A = (t^3 + 1)^2 + (.2t^3 J)$$

$$\frac{dA}{dt} = 2(t^2+1)(2t)i + 6t^2J$$

$$B(0) = 1 + 25$$

$$\frac{dA}{dt} = 4e^{t} - 2\sin(2t)J - 3e^{t}$$

$$\frac{dA}{dt} = 16e^{t} - 4GS2tJ + 9e^{t}$$

$$\frac{dA}{dt} = 16e^{t} - 4GS2tJ + 9e^{t}$$

ستولع ميم مين لعار س www.CollegeTanta.cf X=2Cos(3t)i+4Sin3+J+t3k العدول عد درالعرب V = dx = -6Sin(3t) 1+12 Cos3t] + 3 + 5 K J= dv 2-18 Cos(3+);-36 Sh3+5 +6+k The Jak J' 2 2 1 + 3 5 7 + 3 2 1 6 = x2yi+2x2y3J+y3ZK J.F = 2 x y + 6 x 2 y x + B

الحد فيم المعارات ع , لاد لا الن عقور العارات (BXO)X + (CXA)Y + (AXB) Z+D appir sés d'assis de l'és (BXO) x + (CXA) y + (AXB) Z Storp A 2'9 bel A. (BXC) X + A. (CXA) Y + A. (AXBIZ Q. A-= A. (AXB) 20 A. (CXA) =  $X = \frac{-\overline{A} \cdot \overline{D}}{\overline{A} \cdot (B + C)}$ Marip B ishple B. (BXe) X + B. (CXA) X + B. CAXB) Z  $\sqrt{=-\beta \cdot \vec{D}}$ 

$$y = \frac{-B \cdot D}{B \cdot (CXA)} \#$$

$$C \cdot (BXC) + c \cdot (CXA) + c \cdot (AXB) = c \cdot D$$

$$Z = -C \cdot D$$

$$C \cdot (AXB)$$

$$Z = -C \cdot D$$

$$Z = -C \cdot$$

$$Z = -\overline{D} \cdot (\overline{A} \times \overline{B})$$

$$\overline{C} \cdot (A \times \overline{C})$$

$$\overline{C} \cdot (A \times \overline{C}$$

$$A = GS(A+1) = Sin(A+1), old 151$$

$$\frac{d^2A}{d^2} = -25A$$

$$\frac{\partial^2 A}{\partial t^2} = - \alpha^2 \left( \frac{\cos \alpha ti + 8h \alpha t J}{\cos \alpha ti} \right)$$



legeTanta.cf العيد الصغر المبرس مق العي : F=21+35+Sk -b(1121-1) real) in Fire ats is (4,3,-2) D → (1151-1) b (4131-2) B-P=3i+J-K work = F = f  $=(2i+3J+Sk)\cdot(3i+J-k)$ = 6 +3 - 5 = لوال على العن عود يزعل العن لوال على بال العدة على بال الوال على المام الم

$$= 20 \left[ -\frac{1}{13} + \frac{7 - 10}{13} \right] = \frac{-20}{13} + \frac{20}{13} \cdot \frac{7 - 20}{13} k$$

$$work = F \cdot r$$

$$= -80 + \frac{60}{13} - \frac{140}{13} = -\frac{160}{3}$$

عزا مَنْ مول نقط Mc = LXt ميم عزك العكية F= 30N réal : ér 4) (41-110) = (1,213) pt rès des  $F = 30 \left[ -\frac{3i+35+3k}{9+9} \right]$  $=\frac{10}{13}\left[-31+35+36\right]$ F=-10/31+10/37+10/3/  $M_{0} = \frac{1}{7} + \frac{1}{7} = \frac{1}{7} + \frac{1}{7} = \frac{1}{7$ 

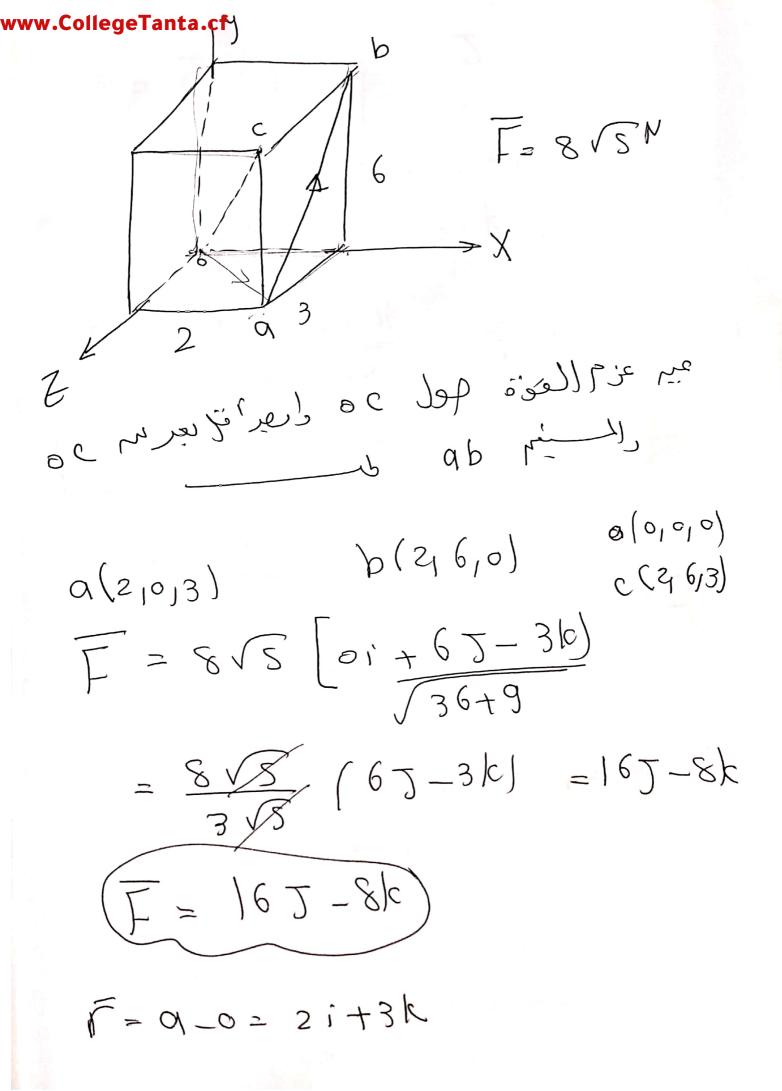
Me= TXI Mcd= Mc. cd B Mcd= = cg. (2 xt) (1-121) Collins F=21+5-1c q = (3|4|-3)c (1/4/-2),

$$\frac{2i+5-k}{c(1_{1}q_{1}-z)}$$

$$\frac{2i+5-k}{c(1_{1}q_{1}-z)}$$

$$\frac{2i+5-k}{c(1_{1}q_{1}-z)} = \frac{2}{|s|}i-\frac{1}{|s|}k$$

$$\frac{7}{|s|} = \frac{2}{|s|}i-\frac{1}{|s|}k$$



$$\frac{0}{0} = \frac{2i + 67 + 3k}{\sqrt{4 + 36 + 9}} = \frac{2}{7}i + \frac{6}{7}j + \frac{2}{7}k$$

$$= -\frac{48(2)}{7} + \frac{16(6)}{7} - \frac{32(3)}{7} = -\frac{96}{7}$$

$$= -\frac{96}{7}$$

$$=\frac{\int 2}{7\sqrt{s}} \#$$

العبد المستخر المبدر من العدة : X و X و X و المدر المستخر المبدر من العدة : X و X و X و X و X و X و X و X و X readly reals is a(1,-2,1) 20(9,-6,27) على مر المئين 1 y = 2 +  $\chi = f_s$ Z= +3 F = X1+ X77-X27 EK 7=-2+ Z=+3 F = t21 - 2+3] + 2+8k متصے المعق (ア2 xi+ 3)+そん)  $L = f_{3}i - s + 2 + f_{3}k$ Qr = 2+1-2] +3t2/c workz f F. dr = \(\left(t^2i-2t^3)+2t^8k\right).(2ti-25+3\t2k) (2+3+4+3+16+10) dt

work 
$$z$$
  $\int (6t^3 + 16t^{-10}) dt$   
 $q(1_1-2_1^2+11)$ ,  $b(9_1^2-6_1z^2)$   
 $y_{z-2}t$   
 $y_{z-1}t$   
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 $y_{z-1}t$   
 $y_$