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HW1: Method 1
Epoint = liq
Equad z ha $\left[ \frac{1}{(d+2)^2} - \frac{2}{Z^2} + \frac{1}{(2-d)^2} \right]$
= $ a ^2 z^2 (z-d)^2 - 2(d-z)^2 (d+z)^2 + z^2 (d+z)^2$
$= \log \left[ \frac{z^2(z-d)^2 - 2(d-z)^2(d+2)^2 + z^2(d+2)^2}{(d+2)^2(2-d)^2z^2} \right]$
= $lq \int 2(2-2zd+d^2) - 2(d^4-2d^2z^2+z^4) + 2(d^2+2dz-2)$
$(d+z)^{2}(d-z)^{2}z^{2}$
$277d \frac{(d+2)^{2}(d-2)^{2}z^{2}}{2^{6}} \approx \log\left[\frac{6z^{2}d^{2}-2d^{4}}{2^{6}}\right] = \log d^{2}$
26 0
$\approx 6 \mu q d^2 = 6 \mu q d^2$
$\approx 6 \log d^2 = 6 \log d^2$ $\sqrt{24}$
$Q = 29 d^2$
E - 3Q
40/8024
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Method 2  Equad 2 Edipole (2-d) - Edipole (2+d)
Edipole = 2pk Z <sup>3</sup>
Equad = $2pk \left[ \frac{1}{(2-d)^3} - \frac{1}{(2+d)^3} \right]$
$= \frac{2pk}{Z^3} \left( \frac{1}{1 - \frac{d}{d}} \right)^3 / \left( \frac{1 + \frac{d}{d}}{2z} \right)^3$
$\frac{2770}{2^3} \left( \begin{array}{c} 2 + 30 \\ 27 \end{array} \right) + \frac{30}{27}$
= 2ph (3d)2 73 (22)
ρ= qd = 2qd kbd = 3 Q 24 44[ε, 24
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Hw2
1 2
and a some agree of autorius the index of
only y component survives the integral
$dE_y = k \lambda dx$
(x2+y2) (x7+y2)2
Ey = 1/ kay dx
(x <sup>2</sup> +y <sup>2</sup> ) <sup>3</sup> /2
substitution,
x = tano
Y dx = y secto do
Ey = / kay2 sec o do
y3 sec30
$\theta_2$
= L/2 = ka serodo = ka sino
= k2/1 1 / (2) - 1 '01
Y & ( \( \frac{1}{2} \)^2 + \( \frac{1}{2} \
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-2ka L	
$\frac{2LXL}{y} \int L^2 + 4y^2$	
λ = q	
· 1 0 1	
= 1 2/180 y 12+4 y2	
· · · · · · · · · · · · · · · · · · ·	

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## HW3

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(a) ZF = qE - qE = 0 () = = ))
90039 = =
(b) C=PF sino
F dqE sine 2 (dqE sine) &
E SMA
(c)   px E = +pE   Sino noto o summer
px is in negative & direction
Therefor, torge is I megative
च = p×E 9 I = 311834-
if the smaller, sing a to thom (b) was
1.0 m, W=0 / C do 0 = 811+3
214(11) p) - 7 - 2 - <del>0</del>
Oto fot peisme do au a donal
1 DE COSO DE COSO
= pE cose = pE cose
1

@fest@
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11 > -11
U = ~W 0 = 4P = 45 (1)
= -PECOO
=-piE77-3
SINGELLE E + PE COSO BILL
(e) <u>u</u> s + p . E
mininize when PME or & = 0°, 360°
unt sub & subpor m si 329
therefore terge or In=10 me (f)
- PESINO = I O HAT S
if & is small, sine ≈ 0 ( from previous
Ø+PEO=00 problem 0=0°
I is equlibrium
Which is an equation for SHO
$\omega^2 = pE$
w=26/1 f = I PE
2417 1
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