Baristevel Zagaru FEL FA FER maj = Fo + FET X: Watx = 29 - 9 E Maz = Fg + FEZ $x: Max = QE - \frac{QQ}{4\pi E_0 d^2}$ 4t & d? (m + 1) = E (D + 2) 48802 (M+M) = E (Qm+qH) E= E+Ez = (E, -Ez); $F_{1+} = E_{1-} = \frac{q}{4\pi\epsilon_0} \left(\frac{q}{(z-\frac{q}{z})^2} + \frac{(q)^2}{(z-\frac{q}{z})^2} \right)$

$$\begin{aligned}
& (z - \frac{\alpha}{2})^{\frac{1}{2}} = z^{2} \left(1 - \frac{\alpha}{2}\right)^{\frac{1}{2}} = z^{2} \left(1 - \frac{\alpha}{2}\right) = z^{2} - \alpha z = z \left(z - \alpha\right) \\
& \cdot E_{1} = E_{1} = \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha z + \left(\frac{\alpha}{2}\right)^{2}\right) = \frac{1}{\sqrt{n} \cdot E} \left(z - \frac{\alpha}{2}\right)^{2} \\
& \cdot E_{1} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{1} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E} \left(z^{2} - \alpha\right) \cdot E_{2} + \frac{1}{\sqrt{n} \cdot E$$

E=E,-E= 9a ((27-a) - (7+0) = 3 fa ((\tal\virta) - (\tal\virta) - \frac{(\tal\virta)}{2\tal\virta)} = \frac{qa}{24} \frac{2\tal\virta\virta\virta\virta\frac{\virta\virta\virta\frac{\virta\virta\virta\virta\frac{\virta\virta\virta\virta\virta\frac{\virta\virt = 399° = 390° = 390° = 390° = 480424 (3) Dano: 3) (Mano: F(7)-! E 117. Trat (Erz) E of (F22) = f22 Fi = fr + C; F = fr + C 380 + C; F = fr + C E(0)=0; C=0. E(0)=0; C=0. E=0 F=0 F=0 F=0 F=0 F=0 F=0Derio: Pu = 9 th EoR + Yguck = 0. que -? Doveryuan logo de de la jar; de rap

de= 2 rdy = 900 Motorywan Pucha R AP = dq 44 Eo (22+ R2) 1/2 de = 8 ds; ds = 262dz; 6 = TPZ dg= to 21/2d2 = 20rd2 dq= 256 R (27+12) 1/2) 4= 5 Q rd7 = 27+12/1/2 = = 4 Epr 6 (2+R2)/2 = 45Epr 2 (52+R2/8)= 5 2 Ti E R 2 (R V2 - R) = 2 Ti ER (52 - 1) qu = - 2 Q (52-1) (5) Deno: Sq+ fr = q, + qz 1 2+92 = 91 + 92 291 = 292 - 4 TEO dr

92 = 9, de 9, +92 = 9, (1+d2) ; 9, +92 = 9, (d, +dr) 9,2 (9, tg2) d, $S_{q}^{2} = |q' - q_{1}| = |(2, +q_{1})d_{1} - q_{1}| = |(2, +q_{1})d_{1$ 192d, -9,d2 d, tdz Pano: 7, R, E. C = Q 7, R, E. C = Q 9 apole. C = 1 9 apole. C = 1 9 apole. 1 $P_{IINOS} = P(T) = f(f) = f($ (1+ 7 (6-1) E(x) = m-kx (7) Derio! Ez= 6, -td; k= 6,-62

8(x)= 6, - (6, -62) x \$ \$ ds = 96. - Pin) ds = Ech ds $\xi_d - (\xi, \xi_1) x) = - SE(\xi, \xi_2)$ 12 = 411 2 1 2 = 40 = 40 411 u

1: 16/ × 10+1,712 De B: iz= io+lz 186 A: i, P, = & 16. CBA: into + 13/3 -1, 1 = & CAEOC: ioRo-hR=Eo. (10+1,+12-18=0 10+12-13=0 i, R, = E 10Ro-1, R +13R3={ Ro-Ry O R3 0 10Ro-12 Rr 56 Ro 0 - Ro 00 = Re Rz (Ro(1+ Rz)+Pz) is= & (1+ R2) + & Ro (1+ R2) + R3

(10). Psyth.

1: 10-11-12=0

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1: 10-11-12=0

1: 10-11-12=0

1: 10-11-12=0 -R-RO =-RR-RR-RR. (0 -1 -1) \(\xi - R_1 \) = -6_2 R_1 + \(\xi \) R_2 6= 62 kg - 61 h RR2 + R(R+R2) P = (2 + R (R + R2)) 2 18 2 (20 1, -6, 12) 4 ((Ry P2 + R (R, + R2) - 2R / R + R2) (Ry R2 + R (R, + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R (R, + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R (R, + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R (R, + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R (R, + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R (Ry + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R (Ry + R2)) - 2R / R + R2 (Ry + R2) (Ry R2 + R2 RP2 + R(R+R2) - 2R (K+R2) = 0 R(Ry +Rz) = R, Rz Rz RRZ R+Rz. 1000 7 6 R-E, R=0; E, G = 5 () (= 4) E = R2

(11) Derw: 11, E, = 1, E2 + Edie V Ez = 1 E, E, (d, + 1, d) = V; E, (-1, 1, + d2 1,)= V. Faz Jar + Ard, 05 66 (62 F2 - 67 F1) = 6 (2, d, +2, d) (627, -67) (2) Darw: aDs koy tal iJ B= May Rdy R = Moy dy

B= May of R3

GRAP S dy = Moy

RECTAL S dy = MO Bo = from 12 = from 1

1 R B = B12 + B23 + B34 (2-3), AB= / 10 / dq B= proy fag= proy B12= B34 de R Z= Lus [de i] al = rd & Cosz Cosz dd OB = 100 1 dd Sin("h+d) = 100 JK Cost dd (05 2 K = = May Cosdad B 5 hoy ho Cosddd - Moy Cosddd - MOY. B = 100 + 100 = 100 (1 +4) a SF J B S Moto , MSI. H=1 (2B + 2Ba) = 2 (Be + Ba) 1/2 0/2 dB = proy [der] 7 = a ; dl = 2dd = add = 2 (2) 2.

· siu/1/2 + x) . Stor 2 dB= frog & all a = MOS COSX dx B 5 mos garage Bi Cos & dd = no y b Ta Var+Bi - cercia & a: dB = hoy wildx B = poy accord a poya a cold = Tit Value? Pu = Sy(s)ds B). Dano! R, W, S= Trz ; ds= Tirdz Pue -? $g(r) = \frac{Q}{R^2} \cdot \frac{R^2}{R^2} \cdot \frac{Q^2}{R^2} \cdot \frac{Q^2}{R^$ dpu = Q23wd2 M(y) = Q22ws 48R2. R Punt = pus / 23dz = Qusp? = 2punt = 2 Qusp?

グミグ 1-7 B, (V): 21/2 B(2) = poy B(r) = hory; By (x) = hory

Da (x) = hory

Zux. B(x) = 105; ds = 1.dx = dx. = hoy lu d+z Уусть в контуре радиусти Torga no respers brancing R510 Ru P=B, Tiko poydq

Dans: Fs pudi B(2)= 10 /1 Ou = OBZ 2 10 y toeseeges of F= pur DZ /- Modify (1) Perchu F= + cod/y= coust. OHTE = Y [H.291R+2H1 d = MMOH = MOH, 2H(FiR+Md)=NJ H= 2(ER+Md)

B= Mun H B= Mun Ny 2(TR + Ma) \$= B.S= B. 1122 N = 122 N2 11/10 W= \$\frac{\partial}{\partial} = \frac{\partial}{\partial} \frac{\partial}{\partial} = \frac{\partial}{\partial} = \frac{\partial}{\partial} \frac{\partial}{\partial} = \frac{\partial}{