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Section: 16

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Date:

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104,1) = N(-21)2 4(8)2

(c)

Let, y' = z tan 0

$$= \frac{k h 2^{2}}{\sqrt{23}} \int_{0}^{\infty} dar \left(\frac{k}{2}\right)^{2} \frac{\sec^{2} 0}{\left(\frac{k}{2} + \tan^{2} 0\right)^{\frac{2}{2}}}$$

$$f_{2}(p) = \frac{4h}{2} \int_{0}^{h-1} \frac{h^{-1}(\frac{1}{2})}{\sec^{2}Q}$$

$$\frac{4h}{2} \int_{0}^{h-1} \frac{h^{-1}(\frac{1}{2})}{\cos Q dQ}$$

$$\frac{kh}{2} \int_{0}^{h-1} \frac{\cos Q dQ}{\sqrt{2^{2}+|y|^{2}}} \int_{0}^{h} \frac{h^{-1}(\frac{1}{2})}{\sqrt{2^{2}+|y|^{2}}} \int_{0}^{h} \frac{h^{-1}(\frac{1}{2})}{\sqrt{2^{2}+|y|^{2}}}} \int_{0}^{h} \frac{h^{-1}(\frac{1}{2})}{\sqrt{2^{2}+|y|^{2}}}} \int_$$

$$=-\frac{k\lambda}{2}\left[-\frac{2}{\sqrt{2^2+(4)^2}}\right]_0$$

$$= -\frac{k\lambda}{2} \left[ \frac{-2}{\sqrt{2^2+1^2}} + \frac{82}{\sqrt{2}} \right]$$

$$\frac{\sqrt{2^{2}+L^{2}}}{\sqrt{2^{2}+L^{2}}} = \frac{1}{\sqrt{2^{2}+L^{2}}}$$

$$= \frac{1}{\sqrt{2^{2}+L^{2}}}$$

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( d)

Fret = Ez + Eco

=-18-371662 10+09+09+09+092-09516625 + 4268-8252

= -18.371666;-1922,941662 +5310.81542

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Am to the D; N; Z.Z.

Dipole moment, P= q, P, +92Pz + 23 Pz

- CAXIO, X (22; -43;)+69xio, X (35; +48;)

+-138 x10 (-30i+620)

= 3.795 x106; -2.967 x106; +2.208 x106; +3.105 x106;

+6.14×106 ; -8.856×106 ;

- (1.0143 x102; 58.418 x106;) C. n.m.

- (1.015371011) - 8.518 X1015) C. m

( 6/

n component of Fis O NC'

 $y \qquad \qquad || \vec{\xi} - \frac{6}{2\epsilon_0}$ 

- 28 ×10 6 -- 28 ×10 6 2×8.85540

-- 458 1206.234 Ne

マーア×ビ

[7] = [P x ]

1.0147x115 -8.418 x105 -1581206-234

- 1 (1.01 53 x 1015 x - 1581206.235) - 01

- 1:6038 x108

(9)

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(b)

Net flux is O. Because gaussian
surface doesn't exclose infinite
ehange sheet. As this is a sphere.
it will be O.

( C/

 $0 = \frac{P \times 4\pi R^3}{3 \in 0}$ 

-> 3241012 X4AX 43

3×8.854 VIO'2

- 968,902

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(8/

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