

28K3072

M.Umax

$$I = \frac{L}{q} + \frac{L}{3} = \frac{4}{5} \cdot 4 = 9$$

$$\frac{I}{cm} = \frac{L}{q} + \frac{L}{3} = \frac{4}{9} = 9 \text{ U.UU}$$

Middle

$$G_P = 213 + 7 = 220$$

$$\frac{I_2}{q_2} = \frac{L}{12} + \frac{L}{6} = \frac{3}{12}, \quad G_{and} = 4 \text{ U.UU}$$

$$(eq: 2 \cdot 25 \cdot 14 = 6.28)$$

GENIUS

$$C_{12} = \frac{A_{\infty}}{d}$$

Charge on plate 2 is $(q_2 + q_3) = 0$

$$C_{23} = \frac{A_{\infty}}{2d}$$

$$q_2 = -A_{\infty}V \quad q_2 = \frac{A_{\infty}V}{2d}$$

$$q_2 = C_{12}(V_1 - V_2) \quad q_3 = C_{23}(V_2 - V_1)$$
$$\frac{-A_{\infty}V}{d} = -\frac{A_{\infty}V}{2d}$$

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$$q_2 = \frac{1}{3} \quad q_3 = -\frac{1}{3}$$

D, P.d

$$q = -A_{\text{av}} V$$

$$\text{then } V = \frac{2P}{d}$$

$$V \geq 2Q_d \quad \text{as } V_L \geq V_R \geq 0$$

So either all players must be

$$V = 2Q_d$$

Some

GENIUS

~~3s~~ Electric field at distance x : $E = \frac{\lambda}{2\pi\epsilon_0 x}$

$$V = \int_x^D \frac{\lambda}{2\pi\epsilon_0 x} dx$$

$$C = \frac{\lambda}{V} = \frac{2\pi\epsilon_0}{2\ln(D/x)}$$

$$V = \frac{\lambda}{2\pi\epsilon_0} \ln(D/x)$$

GENIUS

$$\boxed{C = \frac{\pi\epsilon_0}{2\ln(D/x)}}$$

Date _____

$$Y_s \cdot F_g = F_e$$

$$Mg = qF$$

$$E = \frac{mg}{q}$$

$$E = \frac{0.01 * 9.8}{20.7 \times 10^{-6}} = 4.74 \times 10^3$$

$$\frac{E}{2\sigma}$$

$$\sigma = \frac{E}{2\epsilon_0}$$

$$2(8.85 \times 10^{-12})(4.74 \times 10^3) = 8.2 \times 10^{-8} \text{ (m}^2\text{)}$$

ii. P.d

S₂ Isenthal C₁ Vo
C₂ C₃ - unchanged

q₁ q₂ q₃ = C₁ Vo

q₁ = C₁ y₁ (1,2,3)

y₁ = C₁ Vo
C₂ C₃

q₂ = C₁ Vo
C₂ C₃

q₃ = C₂ C₃ - Vo
C₁ C₂ C₃