

$$V = \frac{\pi(8cm) \left( (4cm)^2 + (2.5cm)^2 + (4cm)(2.5cm) \right)}{3} \quad (1)$$

$$\alpha + \beta = 90 \quad (2)$$

$$6+4 \neq 11 \quad (3)$$

$$\sqrt{\frac{q_1q_2}{F}} = \frac{Q^2}{\delta} \quad (4)$$

$$\therefore Q = 7.11 \times 10^{-9} E \quad (5)$$