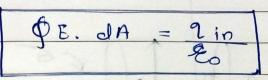
| Physics Presentation Særnaki C. Milmile | |
|----------------------------------------------------------------------------------------------------------|--------|
| Schaki C. Milmile Roll no. 20221161 | 9 |
| O | |
| | |
| (18) A long coaxial cable carries a uniform volume | |
| charge density of on the inner cylinder (radius) | a) |
| outer cylindrical shell (nadius) | |
| outer cylindrical shell (nadiusb). This serrface cho is negative and is of just the wild to leave the | org |
| is negative and is of just the right magnitude | 0 6 |
| Find the electric hold in and at the reutral. | |
| (1) inside the ennex cylindere (3 <a), (2)="" between="" td="" the<=""><td></td></a),> | |
| | |
| Some Plot/E/ as a function of s. | |
| | 6 11 |
| $\begin{array}{c} 2_1 + 2_2 = 0 \\ \end{array}$ | |
| 5 = q1 0 = 52TTL1 | |
| $\frac{6}{2\pi bl} = 62\pi bl$ | - |
| $g = q_2$ $q_2 = g\pi a^2 l$ 3 cases. | 3 |
| $\pi a^2 l$ $\frac{1}{2} = \int \pi a^2 l$ $\frac{3 \text{ cases}}{5 < a}$ | |
| Now, b>s >a field | tric 1 |
| 52TT b1 + 8TT a2 1 = 0 5>b 5= 9 | C |
| TILL 626+9a2)=0 | 2 |
| | 6 |
| | - |
| | 2 |
| | 2 |
| | 2 |

For,

5<a



q'= 8x TTS2l

A = 2TTSl

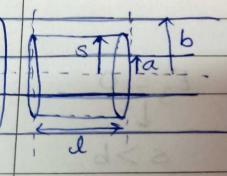
$$E \oint dA = \frac{9 \text{ in}}{\epsilon_0}$$

EA = 9:in

E. 2/158 = Sts28

$$E_1 = \frac{3s}{260} \rightarrow s < a.$$

For, a < 5 26



E. 2HSX = gHazx Eo

$$E_2 = \frac{8a^2}{2865}$$