- 1. Problem 23-28. (+10 pts)
 - i. +6 pts correct electric field (magnitude) for $R_1 < r < R_2$.
 - a. +2 pts electric flux $(\Phi_E = \frac{\lambda l}{\varepsilon_0})$.
 - b. +4 pts electric flux $(\oint_S \vec{\mathbf{E}} \cdot d\vec{\mathbf{A}} = E 2 \pi r l)$
 - ii. +2 pts correct magnitude of electric field at R_1 ($E = 3.1 \times 10^8$ N/C).
 - iii. +2 pts correct magnitude of electric field at R_2 ($E = 5.1 \times 10^5$ N/C).

