Physics 201

Day 5

Yet More Gauss' Law! Find E (r) GE. da = QIN Eo of da cosO

E fda:  

$$E + Q = Q$$

$$E = + Q = Q$$

$$V = 4 \pi e^{2}$$

Solid Cylinder full of  $p = + \ln C$ 3 cm radius, long. m<sup>3</sup> find: E at 9 cm radius (outside) = E, and 1 cm radius (inside). = E<sub>2</sub>

Find general eq. 15t.

radius "x K Find E(f) PVIN - QIN & E. da Side E//da = 8 Tr2/ eo E'.da' = Edacos O

at r=lem 1 x 10 °C x 1 x 10 2 m 2 × 8.85 × 10-12 c2 2r Eo