25 
$$E = \frac{1}{4\pi E} \left[ \int \frac{\Delta A}{R^2} \cos \theta \right] \frac{2}{\pi}$$
  $\int_{1}^{2} e^{-x^2 + \frac{\pi}{R^2}} \cos \theta = \frac{\pi}{R^2}$ 
 $E = \frac{1}{4\pi E} \left[ \int \frac{A(2\pi e^2)^2}{(2+2\pi)^{2}} \right] \frac{2}{\pi}$ 
 $E = \frac{1}{4\pi E} \left[ \frac{(\pi e^2)^2 2\pi e^2}{(2+2\pi)^{2}} \right] \frac{2}{\pi}$ 
 $E = \frac{1}{4\pi E} \left[ \frac{(\pi e^2)^2 2\pi e^2}{(2+2\pi)^{2}} \right] \frac{2}{\pi}$ 
 $E = \frac{1}{4\pi E} \left[ \frac{(\pi e^2)^2 2\pi e^2}{(2+2\pi)^{2}} \right] \frac{2}{\pi} \left[ \frac{\pi}{R^2} \right] \frac{2}{\pi} \left[ \frac{\pi}{R^2$ 

$$\frac{218}{218}$$
  $E_{+} = \frac{1}{316}$   $V_{+}$   $E_{-} = \frac{1}{316}$   $V_{-}$   $V_{-} = \frac{1}{316}$   $V_{+} = \frac{1}{316}$   $V_{+} = \frac{1}{316}$   $V_{+} = \frac{1}{316}$ 

4) 
$$V = 4\pi\epsilon_0 \frac{\sqrt{2^2 R^2 R^2}}{\sqrt{2^2 R^2 R^2}} = 4\pi\epsilon_0 \ln(x + \sqrt{2^2 R^2}) |_{\nu_0}^{\nu_0} = \frac{1}{4\pi\epsilon_0} \ln(x + \sqrt{2^2$$