13.1.3.13,14.15 2.47 50 7,43 SE. da= E. ZKr.x = Q E-Q ZECX EO $V(b) - V(a) = -\int E dx$ ď- $\sqrt{c} = \sqrt{(a)} + \sqrt{(b)}$ = - 12 / b / dx V = 2 [In(b) - In(a)] = ZREO $V(r) = A \frac{e^{-\lambda r}}{r}$ p(1) .Q E(V) < 4 ans: P= Eo A (4x 53(1)-12 - 11) L XX $E = -7V = -A \int \frac{r(-\lambda e^{-\lambda r}) - (e^{-\lambda r})}{r^2}$ $= +A\left(\frac{e^{-r}(+r\lambda)+1}{2}\right)$? P= EO V.E

 $= A \in \left[e^{-\lambda r} (\lambda r + 1) \nabla \left(\frac{1}{r^2} \hat{r} \right) + \frac{1}{r^2} \hat{r} \cdot \nabla \left(e^{-\lambda r} (\lambda r + 1) \right) \right]$ THE STAN ATTAC SO. e (T) 4x 53(1) $\frac{1}{r^2}\left((\lambda e^{-\lambda r})(\lambda r t) + (e^{-\lambda r}\lambda)\right) = \frac{1}{r^2}$ All-xxexxxexx+xexx P= A & (4 x 8 3 (r) - 2 e-x") Q = \pdr - \ \A \in (4x \dis'(1) - \frac{1}{2} e^{-\text{x}}) d\tag{7} \\ \gamma^2 \sin \dd \gamma^2 \sin \dd \gamma^2 \sin \dd \\ \gamma^2 \sin \dd \gamma^ = A Go Jan Stote - () e-rapide) noldron 1 4 R (/2) = 4x = A Eo (4x-4x)=0

Vave = Veen + Que ... 4xEoR' (ZCR) JA1=121+K1-22K = 12-2 3.14 Vne - a - [(Z+R)-(R-Z)] = d qxEoR ex 3.3 V= & Cae sin(nay/a) · Cn = = 2 / (x (x) sin(nky/a) /y (x x/a) (= 2 / 9 / Voco> (- 27) | 1/2 - Vo co) (- 27) 1/2 = 2 / (-co) (n) + 1 - (-co) (nx) - (o) (nt) = 2 /0 [-2 cos () + 1 + cos (n R) = -1: -2(=)+1+(0)(=)=0 2:-2(8)(8) +1+1=4. n hus tobe 31-2(92天)十1生1:0. 2+4.n.6 4:-1 cos(iz).+1+1=0 - 16 for

 $V = 2 \frac{\partial V_0}{\partial x \partial x \partial x} e^{-(4n+2)\pi x \partial x} \sin((4n+2)\pi y \partial x)$

 $\frac{\sigma(y)}{z-\epsilon} = -\epsilon \frac{\partial V}{\partial n} \qquad \frac{3.36}{V(x,x)} = \frac{4V_0}{\pi} \frac{4}{4.3.5} = \frac{-n\pi x}{n} \frac{\pi}{4.3.5} = \frac{\sin(n\pi x/n)}{\sin(n\pi x/n)}$ $+ \frac{4V_0}{\epsilon} = \frac{4V_0}{\pi} = \frac$ 14.

= +4,60V2 & Sin(nxy)