4.1,74, ex 4.2. p. 10, 18, 10 V= 500 V (I) * H. Z/ARES 500V - THOU E= 1 < 0.66) 15°0 2= 7.34×10-41 P= X = ed d= 2×10-161 < 4 R& 25 pm 25×10-12/2-×1016= 125000 25k: 13.00/ U= Vq - Vq-V=-p.E S M= 17 - 7 Va(rtd) - Va(r) -9 0 0 49 U * = -a V dx = +a E-de p= ZE Pigd = E d(g) V=-2E OX

Ex 4,2 () = P.n = P(0) U V= 1 (op da 25 (co) V(r,0) = 2 4 1' p(co) 4) in) ce. 1= 0, 2 B P (0) (3) ovt when C=R Vin = Vort AR = B Detr 1 (Vaul-Vin) = - = 05(0) Jour = &-(lt) Be P co) & 2 Vin= { lAiRUI.P(co)} A= TEORE-1) JO (D) P, COSO SIND do = \frac{1}{360} in V= \frac{1}{360} V (0) \text{ in Side

Vox = K R3 (0) A othe TA E. 2 field+potentio=Q: V=EoR) for given & field. 10. P(x)= KV a) 7=? p=? Jo= KR = Ph P=-77 PD=-1207 (2(kr))=-13k P(r)= kg P= - (k)= E=0 higher E=0 higher Qenc=0 Den = o (4 na2) + (p de Ji= K Q= 4 xak + 4xk \ - - 12

$$-\frac{q_{R}a_{R}-4\kappa_{R}(r-a)}{2\pi\kappa_{R}}$$

$$=-\frac{q_{R}b_{R}-8\kappa_{R}a_{R}}{2\pi\kappa_{R}}$$

$$=-\frac{q_{R}b_{R}-8\kappa_{R}a_{R}}{2\pi\kappa_{R}}$$

$$=-\frac{q_{R}b_{R}-8\kappa_{R}a_{R}}{2\pi\kappa_{R}}$$

$$=-\frac{(r+2n)}{8}$$

$$=-\frac{(r+2n)}{8}$$

$$=-\frac{(r+2n)}{8}$$

$$=-\frac{r}{8}$$

$$=-$$

Xe=6,-1 X1=1 X2=0.5

FIVE STAR. e) STAR FIVE AAA STAR STAR T X X

d) V= E, a+Era = a= (1+2)