4 i Let V= \$(0,52)+\$ \$ \$ \$ \$ (a,02) Where $\phi(\mu, o^2)$ is a normal random number with mean μ , variance o^2 , and Define 8 x ~ Bernoulli (p) Define K~ Binomial (n, p) Then V= \$\phi(0,5^2) + \frac{2}{2} \phi(a,0^2) = \$(0,52) + \$(Ka, Ka2) = Ø(Ka, Ko2+52) Hence P(V)= = P, (V|K=k)P2(K=k) where K ~ Binomial (n,p) and VIK=k~N(Ka, *Ko2+s2) Thous K(NZWZ)