Math 166 HW 4 1a) Consistent when lim P(1\hat{\lambda}_n-\lambda \(\varepsilon \) = 1

For \(\lambda = \varepsilon \) = \(\lambda \) \(\lambda = \varepsilon \) \(\lambda = \vareps PCIP, - NIC 2) < 1-e-222 1 = 24; P(214, 72) 2 P(4, 22) = e 2)2 sum of n 4, 40 10 -2)2(2,5c 2 P° (Az) + 2 P° (Ax) = 1 (1-PCB, IA,)) PCA,) + [PCAK] = 1 1-PCB, IA,)PCA,) 1-PCB, IA, IPCA,) PCAJ)+ SIPCANI-PCAJ)PCBJ(AJ) (1-PCB, 1A,)PCA,) 1-PCB+ A3 (RCA) =1 50 new posetarias far J+K, for PCAIR)
1-PCB+A)PCA+DIA,
1-PCB+A,
1-PCB+A, T= treasure in region r, R= event region searched and

PCRITI = 0.9 PCR2 | T2 |= 0.7 PCR3 | T3 |= 0.9

PCT |= 0.4 PCT2 |= 0.1 PCT3 |= 0.5

Start in region 3 susing Bayesian Search strategy

PCT3 |= 0.09 | PCT1 |= 0.727 PCT2 |= .162 Search 1 = 0.213 P° (T2) = .527 PCT3) = 0 2634

P°(T2)= .251 P3(T)=0,333 P3(T3)= .414 P (T)= 0.067 P"(T)= 534 P"(T)= .402 Anny probabilities not adding to a are due torounding lack of precision in my answers Following the continuous definition focalX=1K)= px(Kle1966) 1 m (1) 3 (a) 20 Dx CK 161-1ge= C1-6) K-10. TCAS) 8 -TCAS) 8 -TCAS) 8+K-2 = [C(+5) @ (1-6) This is a Beta distribution with Parameters 1+1 and s+K-1 that means this is the pdF