Solve Approach 16 Since here we've I observation X and T(X) = X, observation itself, Therefore it is sufficient statistic since it'd obviously Contain all enfo about & [I mark] Approad3 6 def -1 withy 70x1 = x correctly -1 withy correspond for (71x)

fo(x) = g(t(0)h(x)) [o(mark defn)] $= (0)(x)(1-0)(1-1x) \times (1)(0)(mark)$ g(tlo) h(x) -> Statistic T=T(X) is said to be complete Suppose E& C9(t)]=Off OE Co1)
Where T(X)=X
(X=-1,011 9, OE CO11) 29(t) Po(X=2) = 0 +06(01) 9(-1)0 + 9(0)(1-0)+9(1)0=0 2 +06(011)

Approach 26 factorization theorem.

9(9(-1)+9(1))+(1-9)9(0)=0+06(0) 9 (g(-1)+9(1)-29(0)) +9(0)=0 /morte 2 +0001) for above to hold HOE (0,1), ossmark g(0) = 0 and g(-1) + g(1) - 2g(0) = 0puttur 9(0)=0 in 9(-1)+9(1)-29(0)=0 = 9(-1) + 9(1) = 0 wark re, 2 a non trivial solution (g(-1) & g(2) are not necessarily zero + 0 = Toil) $\frac{\partial}{\partial x} = \frac{\partial}{\partial y} = \frac{\partial}{\partial y} = 0$ $\frac{\partial}{\partial y} = \frac{\partial}{\partial y} = 0$ $\frac{\partial}{\partial y$ a. Not Complete! 1025 mark