Subject: Discrete Mathematics Date 21st Sep 2022 Total 25 marks Ouiz 1

Is this argument valid, "If discrete math is Good then x = 4. Discrete math is Good. 2. Prove the equivalence using different inference rules $\mathbf{l}_{\mathbf{r}}$ Give an inductive proof that the Fibonacci numbers $\mathbf{F}_{\mathbf{n}}$ and $\mathbf{F}_{\mathbf{n}+1}$ are relatively prime $\chi (p \leftrightarrow q) \equiv \neg p \leftrightarrow q \times$ = Pull Nova Habit $F_0 = 0$, $F_1 = 1$, $F_n = F_{n-1} + F_{n-2}$ (for $n \ge 2$). for all $n \ge 2$. The Fibonacci numbers are defined as follows, 0-6000) V(800-0

Let A, B, and C be sets. Show that (A - B) - C = (A - C) - (B - C). taken a flight on every airline in the world." Let P(w, f) be "women (w) has taken Use quantifiers to express the statement that "There does not exist a woman who has Therefore x = 4 "

flight (f) "and Q(f, a) be "f is a flight on airline a"

XX(18)0