Quiz 3: (3-23-2022) Negate the following: Vx 6 R , x>3 → x2>9 Va,b, c & Z ((a-b).1, 2=0) n((b-c).1.2=0)-> ((a-c).1.2=0) a) FXERIX>31 x269 b) Fa,b, C & Z | ((a-b).1.2=0) 1 ((b-c).1.2=0) 1 ((a-c).1.70) Yx, P(x) -> Q(x) ~ (\dx, p(x) \rightarrow Q(x)) = 3x 1 p(x) 1 ~Q(x) (2) Negree He definition of a limit siquence. VEERSO, FNEZ+ I YNEZ', NON > L-ELANL L+E ~ (Vx, 3y 1 pcx) -> Qcx)) = 3x 1 ty, pcx) , na(x) Negation * BEER > O I YNEZ+, BREZ+ I n>N N 1-12 an > L+E

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Define the Abduction inference utilizing matternational symbols: what type of error can be associated w/ this form was reasoning? where might it be wood-

Vx, P(x) → Q(x) Q(a) for a particular a. : P(a)

- " This form of consuming demonstrates CONVERSE error.
- Octors usually use this form it reasoning when deciding what to prescribe their patients.
- o Basically, given Q(a), there's a possibility that P(a) can be true but it is NOT a certainty.