HW 0 Coder Bak

(a) "Unique solution": exists + ≤ 1

$$\forall k \in \mathbb{R},\ (\exists x \in \mathbb{R},\ x^3 = k) \wedge (\forall y, z \in \mathbb{R},\ (y^3 = k \wedge z^3 = k) \Rightarrow (y = z))$$

(b) $$\bigwedge_{p \in \mathbb{N}} P(p) \Rightarrow \forall a, b \in \mathbb{N},\ (\neg p \mid a \wedge p \mid ab) \Rightarrow (p \mid b)$$

(c) For any real numbers x, y, if $xy = 0$, then $x = 0$ or $y = 0$

(d) There doesn't exist a natural number y, such that the number greater than y is either ~~divided~~ divisible by y or is a prime number.