

Worksheet 6 Solution

March 15, 2020

Question 1

a. $P(123) \wedge (\forall n \in \mathbb{N}, P(n) \Rightarrow n \leq 123)$

b. $isCD(x, y, d): \exists x, y, d \in \mathbb{Z}, d \mid x \wedge d \mid y$

$$isGCD(x, y, d): \exists x, y, d \in \mathbb{Z}, isCD(x, y, d) \wedge (\forall e \in \mathbb{Z}, e > d \Rightarrow \neg isCD(x, y, e))$$

Question 2

Question 3