

# Quiz 3 Solution

March 12, 2020

## Question 1

- True

## Question 2

1.  $\forall n \in \mathbb{Z}, \exists m \in \mathbb{Z}, n \mid m$
2.  $\forall n \in \mathbb{Z}, -1 \mid n$
3.  $\forall n \in \mathbb{Z}, n \mid 0$
4.  $\exists m \in \mathbb{Z}, \forall n \in \mathbb{Z}, n \mid m$

## Question 3

- $\exists x \in \mathbb{R}, (\exists y \in \mathbb{R}, P(y) \wedge Q(x, y)) \wedge x \leq 5$

Question 4

Question 5

Question 6

Question 7

Question 8