

Worksheet 4 Solution

March 13, 2020

Question 1

- a. $\exists n \in \mathbb{N}, (n > 3) \wedge (n^2 - 1.5n \geq 5)$
- b. The variable is existentially quantified
- c. Concrete natural number
- d. Let $n = 5$.

Then,

$$(5)^2 - 1.5(5) \tag{1}$$

Then,

$$25 - 7.5 \tag{2}$$

Then,

$$17.5 \tag{3}$$

which is greater than 5, so the statement is True