**Assignment#1**

**MTH101 (Fall 2020)**

**STUDEND ID: BC200413858**

**Question 1**: Discuss the continuity of the function at x = 0 given that

**Solution:**

**LEFT HAND SIDE**

=

= 0(any value)

**RIGHT HAND SIDE**

=

= 0(any value)

**(Proved)**

**Question 2:** Check whether the given functions have at least one solution over the given intervals by using Intermediate value theorem.

**1. **

**SOLUTION:**





**BETWEEN 8 AND -19**

2. 

h(x) = x4 + x – 3

H(x) = x4 + x – 3

**BETWEEN 11 AND -3**