**2CS503 Design and Analysis of Algorithms**

**Tutorial 2: Asymptotic Notations**

Q-1. Find the θ-notation for the functions.

Q-2. Find the O-notation for the functions.

Q-3. Show that for any real constants a and b, where b > 0

Q-4. Is Is

Q-5. Prove that: (nlogn – 2n + 13) = Ω(nlogn)

Q-6. Prove that