**Class 9 Additional Problems 8/19/2023**

1. **Assume a and b are any whole numbers, and x2 + 5ax + 10b + 3 = 0. Please prove x is not a whole number.**
2. **Please prove 11, 111, 1111, …, 11…1, … are not perfect squares.**
3. **Please prove 4 digit whole number is not a perfect square.**
4. **Please prove for any natural number n, n \* (n + 1) is not a perfect square.**
5. **Please find a 4 digit perfect square .**