Abhishek Gunasekar

CS 182: Homework 5

**Problem 1 (20 Points)**

**Prove or disprove that for any positive integer n ≥ 0, n3 + 2n + 3 is divisible by 3.**

**Problem 2 (20 Points)**

, DONE

**Problem 3. (20 Points)**

, then P(1) holds, DONE

holds for any arbitrary integer

**Problem 4. (20 Points)**

for all positive integers n

**Problem 5. (20 Points)**

A close up of text on a black background

Description automatically generated

A close up of a piece of paper

Description automatically generated