Name: _____

Entry number: _____

There are 1 questions for a total of 6 points.

1. (6 points) <u>Prove or disprove:</u> Given any 17 natural numbers, it is possible to choose 5 whose sum is divisible by 5.

2. (4 points) <u>Prove or disprove</u>: For any positive integer n, $n^5 - 5n^3 + 4n$ is always divisible by 5.