HOMEWORK 2

Question 1. Prove that if a and b are odd integers, then $a + b$ is an even integer.

Question 2. Prove that if n is an odd integer, then $2n^2 + 3n + 4$ is an odd integer.

Question 3. Prove that $\sqrt{6}$ is irrational.

Question 4. Prove that $\sqrt{2} + \sqrt{3}$ is irrational.