Transition to Advanced Mathematics: assignments 7-8

Consider the statement: For all $n \in \mathbb{Z}_{\geq 1}$,

$$\sum_{i=1}^{n} i^2 = \frac{n(n+1)(2n+1)}{6}$$

1) Write up a proof of the statement. Do not put your name on it, but rather choose a random number that is unlikely that somebody else would choose.

2) Turn in your proof on March 18th. They will be shuffled and given out at random (such that nobody receives his or her own).

3) On a separate sheet of paper grade the proof you receive using the proof grading rubric. Explain why you choose the 6 marks that you choose. (Please do not make any marks on the original proof)

4) Turn in both pages on March 20th. On your grade sheet write your name as well as the number chosen in (1).

Assignment #7 is the proof itself.

Assignment #8 is grading the proof. An accurate grade is worth full credit.