M419 - Linear Spaces and Matrix Theory, Fall 2013

Assignment # 1.
Due: Thursday, September 12, 2013.

From the text (Strang, Linear Algebra and Its Applications, 4th Edition)

Section 1.2 – Problems 4, 8, 10, 20, 22.
Section 1.3 – Problems 4, 6, 10, 16, 18, 20, 27.

Additional Problems:
A. Prove the identity

\[ 1^2 + 2^2 + 3^2 + \cdots + n^2 = \frac{n(n + 1)(2n + 1)}{6} \]