Unit 9 Study Guide WS

*Refer to and study all class notes, practice problems, homework, and the Unit 9 Can You.*

1. Form a sequence that has 3 arithmetic means between and
2. Form a sequence that has two geometric means between 9 and
3. Write in expanded form and then find the sum.
4. Express the series + using sigma notation.
5. Expand (2p+1)4.
6. Find the fourth term in the expansion of (2x-3y)14.
7. Use mathematical induction to prove that 1 + 5 + 9 + … + 4n – 3 = n(2n - 1).