**Review WS 11.1-11.3 & 11.6 B Name:**

1. Find the sum: -4 + 1 + 6 + 11 + …+ 91
2. Write a formula for the sequence: 
3. The second and fifth terms of a geometric sequence are 15 and 405, respectively. Is 32,805 a term of this sequence? If so, which term is it?
4. An architect designs a theater with 28 seats in the first row, 32 in the second, 36 in the third and so on. If the theater is to have a seating capacity of 1020, how many rows must the architect use in his design?
5. Insert three geometric means between 144 and 9. (There may be more than one answer.)
6. Write in sigma notation: S22 for 
7. Find the sum: 5 + 25 + 125 + … + 15,625
8. The sum of a geometric series is 249.92. The first term is 200 and the third term is 8. Find n.
9. Expand: 
10. Find the term that does not contain x in the expansion of 
11. Factor using the binomial theorem: 