ıth Analysis II Honors

Review Sec. 13.1-13.5 Answers

1) $t_n = 4n - 1$

2) Recursive: $t_1 = 2; t_n = t_{n-1} + 2n - 1$
   Explicit: $t_n = n^2 + 1$

3) $t_1 = 3; t_n = t_{n-1} + 10(2)^{(n-2)}$
   OR $t_1 = 3; t_n = 2t_{n-1} + 7$

4) 7,650

5) 124,500

6) ¾

7) 1

8) 4/3

9) $1 < x < 3$

10)
   a) Converges: S = 1
   b) Diverges
   c) Diverges
   d) Converges: S = 5/2