Problem Set 105

2. $B(t) = (1000)3^{t/10}$

4. $a_1 = 1, \quad a_2 = 0, \quad a_3 = -\frac{1}{9}, \quad a_4 = -\frac{1}{8}$

6. $a_n = \frac{n}{n+1}, \quad n = 1, 2, 3, \ldots .$

8. Converges to 1

10. Converges to e

12. 0

14. 0

16. $x^3 - 4x^2 + 3x - 7$

18. –1.086130198

20. $T_4 = 0.482$

22. $\delta = \frac{3}{2}\varepsilon$

24. 4