CHAPTER 9 INFINITE SEQUENCES AND SERIES

9.1 SEQUENCES

1. $a_1 = \frac{1-1}{1^2} = 0,\ a_2 = \frac{1-2}{2^2} = -\frac{1}{4},\ a_3 = \frac{1-3}{3^2} = -\frac{2}{9},\ a_4 = \frac{1-4}{4^2} = -\frac{3}{16}$

3. $a_1 = \frac{(-1)^1}{2\cdot 1} = 1,\ a_2 = \frac{(-1)^2}{4\cdot 2} = -\frac{1}{8},\ a_3 = \frac{(-1)^3}{6\cdot 3} = \frac{1}{3},\ a_4 = \frac{(-1)^4}{8\cdot 4} = -\frac{1}{7}$

5. $a_1 = \frac{2}{2^1} = \frac{1}{2},\ a_2 = \frac{2^2}{2^2} = \frac{1}{2},\ a_3 = \frac{2^3}{2^3} = \frac{1}{2},\ a_4 = \frac{2^4}{2^4} = \frac{1}{2}$

7. $a_1 = 1,\ a_2 = 1 + \frac{1}{2} = \frac{3}{2},\ a_3 = \frac{3}{2} + \frac{1}{3} = \frac{7}{6},\ a_4 = \frac{7}{6} + \frac{1}{4} = \frac{17}{12},\ a_5 = \frac{17}{12} + \frac{1}{5} = \frac{97}{60},\ a_6 = \frac{97}{60} + \frac{1}{6} = \frac{197}{120},\ a_7 = \frac{197}{120} + \frac{1}{7} = \frac{1267}{840},\ a_8 = \frac{1267}{840} + \frac{1}{8} = \frac{2683}{1680},\ a_9 = \frac{2683}{1680} + \frac{1}{9} = \frac{8111}{5040},\ a_{10} = \frac{8111}{5040} + \frac{1}{10} = \frac{18079}{10080}$

9. $a_1 = 2,\ a_2 = \frac{(-1)^2(2)}{2} = 1,\ a_3 = \frac{(-1)^3(1)}{3} = -\frac{1}{3},\ a_4 = \frac{(-1)^4\left(-\frac{1}{3}\right)}{4} = -\frac{1}{12},\ a_5 = \frac{(-1)^5\left(-\frac{1}{12}\right)}{5} = \frac{1}{60},\ a_6 = -\frac{1}{360},\ a_7 = -\frac{1}{2520},\ a_8 = -\frac{1}{20{,}160},\ a_9 = \frac{1}{181{,}440},\ a_{10} = \frac{1}{1{,}814{,}400}$

11. $a_1 = 1,\ a_2 = 1,\ a_3 = 1+1 = 2,\ a_4 = 2+1 = 3,\ a_5 = 3+2 = 5,\ a_6 = 8,\ a_7 = 13,\ a_8 = 21,\ a_9 = 34,\ a_{10} = 55$

13. $a_n = (-1)^{n+1},\ n = 1, 2, \ldots$

15. $a_n = (-1)^{n+1}n^2,\ n = 1, 2, \ldots$

17. $a_n = \frac{n^{n+1}}{3(n+2)},\ n = 1, 2, \ldots$

19. $a_n = n^2 - 1,\ n = 1, 2, \ldots$

21. $a_n = 4n - 3,\ n = 1, 2, \ldots$

23. $a_n = \frac{3n+2}{n!},\ n = 1, 2, \ldots$

25. $a_n = \frac{1+(-1)^{n+1}}{2},\ n = 1, 2, \ldots$

27. $a_n = \frac{1}{n+1} - \frac{1}{n+2} = \frac{1}{(n+1)(n+2)},\ n = 1, 2, \ldots$

29. $a_n = \sin\left(\frac{\sqrt{n+1}}{1+(n+1)^2}\right),\ n = 1, 2, \ldots$

31. $\lim_{n\to\infty}\left(2 + (0.1)^n\right) = 2 \Rightarrow$ converges (Theorem 5, #4)

33. $\lim_{n\to\infty}\frac{5-2n}{1-3n} = \lim_{n\to\infty}\frac{\left(\frac{1}{n}\right)-2}{\left(\frac{1}{n}\right)+3} = \lim_{n\to\infty}\frac{-2}{3} = -1 \Rightarrow$ converges

35. $\lim_{n\to\infty}\frac{1-5n^4}{n^4+4n^3} = \lim_{n\to\infty}\frac{\left(\frac{1}{n^4}\right)-5}{1+\left(\frac{4}{n}\right)} = -5 \Rightarrow$ converges

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Solutions Manual Chapter 9

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