

## CHAPTER 9 INFINITE SEQUENCES AND SERIES

### 9.1 SEQUENCES

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

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

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

$$7. \quad a_1 = 1, \quad a_2 = 1 + \frac{1}{2} = \frac{3}{2}, \quad a_3 = \frac{3}{2} + \frac{1}{2} = \frac{7}{4}, \quad a_4 = \frac{7}{4} + \frac{1}{4} = \frac{15}{8}, \quad a_5 = \frac{15}{8} + \frac{1}{8} = \frac{31}{16}, \quad a_6 = \frac{63}{32}, \quad a_7 = \frac{127}{64}, \quad a_8 = \frac{255}{128}, \\ a_9 = \frac{511}{256}, \quad a_{10} = \frac{1023}{512}$$

$$9. \quad a_1 = 2, \quad a_2 = \frac{(-1)^2(2)}{2} = 1, \quad a_3 = \frac{(-1)^3(2)}{2} = -\frac{1}{2}, \quad a_4 = \frac{(-1)^4(-4)}{2} = -\frac{1}{4}, \quad a_5 = \frac{(-1)^5(-4)}{2} = \frac{1}{2}, \quad a_6 = \frac{1}{12}, \quad a_7 = -\frac{1}{12}, \\ a_8 = -\frac{1}{24}, \quad a_9 = \frac{1}{12}, \quad a_{10} = -\frac{1}{24}$$

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

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

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

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

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

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

$$23. \quad a_n = \frac{3n+1}{n^2}, \quad n = 1, 2, \dots$$

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

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

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

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

$$33. \quad \lim_{n \rightarrow \infty} \frac{1-\frac{2}{3^n}}{1-\frac{1}{3^n}} = \lim_{n \rightarrow \infty} \frac{\left(\frac{1}{3}\right)^{-2}}{\left(\frac{1}{3}\right)^{-2}} = \lim_{n \rightarrow \infty} \frac{-2}{2} = -1 \Rightarrow \text{converges}$$

$$35. \quad \lim_{n \rightarrow \infty} \frac{1-\frac{5n^4}{n^2+3n^2}}{1+\left(\frac{1}{2}\right)^n} = \lim_{n \rightarrow \infty} \frac{\left(\frac{1}{2}\right)^{-5}}{1+\left(\frac{1}{2}\right)^n} = -5 \Rightarrow \text{converges}$$

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web thus did the great scientist sir humphrey davy describe the man often called the father of the atomic theory the details of that theory have long since been refined but the revolution that dalton effected in physical science is as significant as that instigated by darwin s ideas on evolution

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web he proposed the atomic theory in 1803 which stated that 1 all matter was composed of small indivisible particles termed atoms 2 atoms of a given element possess unique characteristics and weight and 3 three types of atoms exist simple elements compound simple molecules and complex complex molecules

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web dalton introduced atomic theory by explaining the law of constancy of chemical composition and formulating the laws of partial pressures and multiple proportions he also carried out numerous tests on gas absorption in liquids and thermal expansion of gases and described the condition known as daltonism

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web dalton s atomic theory 1804 from his own experiments and observations as well as the work of his peers dalton proposed a new theory of the atom this later became known as dalton s atomic theory the general tenets of this theory are as follows all matter is composed of extremely small particles called atoms

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web science history institute although a schoolteacher a meteorologist and an expert on color blindness john dalton is best known for his pioneering theory of atomism he also developed methods to calculate atomic weights and structures and formulated the law of partial pressures

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web oct 25 2017 during the years 1814 1819 william higgins an irish chemist who worked at the dublin society claimed he had anticipated john dalton in developing the atomic theory and insinuated that dalton was a plagiarist

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