

SECTION 12.1

1. 2, 3, 4, 5 3. 3, 5, 7, 9 5. 0, -2, -4, -6 7. 2, 4, 8, 16 9. 2, 5, 10, 17 11. $0, \frac{7}{2}, \frac{26}{3}, \frac{63}{4}$ 13. 40

15. 110 17. 225 19. $\frac{1}{256}$ 21. 380 23. $-\frac{1}{36}$ 25. 45 27. 20 29. 91 31. 0 33. 432 35. $\frac{5}{6}$

37. $2x + 2x^2 + 2x^3 + 2x^4 + 2x^5$ 39. $x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \frac{x^5}{5}$ 41. $\frac{x^3}{6} + \frac{x^4}{8} + \frac{x^5}{10}$ 43. $x^2 + x^4 + x^6 + x^8 + x^{10}$

45. $x + \frac{x^2}{4} + \frac{x^3}{9} + \frac{x^4}{16}$ 47. $1 + 2x + 3x^2 + 4x^3$ 49. 1 51a. False b. False