

21. 3, 8, 13, 18, 23
22. 2, -1, -4, -7, -10
23. $-14\frac{1}{2}, -14, -13\frac{1}{2}, -13, -12\frac{1}{2}$
24. 5, 8, 11, 14, 17
25. 5, 8, 11, 14, 17
26. 5, 2, -1, -4, -7
27. -3, 3, 9, 15, 21
28. $\frac{1}{3}, \frac{5}{6}, 1\frac{1}{3}, 1\frac{5}{6}, 2\frac{1}{3}$
29. 148
30. 0
31. 48
32. -62
33. $t(n) = 4n$; $t(1) = 4, t(n+1) = t(n) + 4$
34. $t(n) = 7n - 9$; $t(1) = -2, t(n+1) = t(n) + 7$
35. $t(n) = 39 - 12n$; $t(1) = 27, t(n+1) = t(n) - 12$
36. $a_n = \frac{1}{3}n + 2\frac{2}{3}$; $a_1 = 3, a_{n+1} = a_n + \frac{1}{3}$
37. graph (21): points (1, 3), (2, 8), (3, 13), (4, 18), (5, 23) slope = 5
graph (22): points (1, 2), (2, -1), (3, -4), (4, -7), (5, -10) slope = -3
38. The slope of the line containing the points is the same as the common difference of the sequence.
39. 10, 20, 40, 80, 160
40. -9, -27, -81, -243, -729
41. 40, 20, 10, 5, $\frac{5}{2}$
42. 6, -3, $\frac{3}{2}, -\frac{3}{4}, \frac{3}{8}$
43. 5, 15, 45, 135, 405
44. 100, 50, 25, $\frac{25}{2}, \frac{25}{4}$
45. -3, 6, -12, 24, -48
46. $\frac{1}{3}, \frac{1}{6}, \frac{1}{12}, \frac{1}{24}, \frac{1}{48}$
47. 464
48. 16
49. 6
50. $\frac{27}{2}$
51. $t(n) = \frac{2}{5} \cdot 5^n$; $t(1) = 2, t(n+1) = t(n) \cdot 5$
52. $t(n) = 64 \cdot \left(\frac{1}{4}\right)^n$; $t(1) = 16, t(n+1) = t(n) \cdot \frac{1}{4}$
53. $t(n) = \frac{5}{3} \cdot 3^n$; $t(1) = 5, t(n+1) = t(n) \cdot 3$
54. $t(n) = \frac{-3}{2} \cdot (-2)^n$; $t(1) = 3, t(n+1) = t(n) \cdot (-2)$
55. Graph (39): Points on curve through (1, 10), (2, 20), (3, 40), (4, 80), and (5, 160).
Graph (52): Points on curve through (1, 16), (2, 4), (3, 1), (4, $\frac{1}{4}$), and (5, $\frac{1}{16}$).
56. Arithmetic sequences are linear and geometric sequences are curved (exponential).