

# Answer Key

---

## Practice B

- 3, 8, 13, 18, 23
- 2, -8, -32, -128, -512
- 32, 20, 14, 11,  $\frac{19}{2}$     4. 2, 2, 5, 7, 12
- 1, 5, 29, 845, 714,029    6. 5, 9, 14, 23, 37
- $a_n = -4(2)^{n-1}; a_1 = -4, a_n = (2)a_{n-1}$
- $a_n = 10(-5)^{n-1}; a_1 = 10, a_n = (-5)a_{n-1}$
- $a_n = 16\left(-\frac{1}{4}\right)^{n-1}; a_1 = 16, a_n = \left(-\frac{1}{4}\right)a_{n-1}$
- $a_n = 2 - 3n; a_1 = -1, a_n = a_{n-1} - 3$
- $a_n = -\frac{14}{3} + 5n; a_1 = \frac{1}{3}, a_n = a_{n-1} + 5$
- $a_n = \frac{11}{2} + \frac{1}{2}n; a_1 = 6, a_n = a_{n-1} + \frac{1}{2}$
- $a_1 = 1, a_n = a_{n-1} + 6$
- $a_1 = 36, a_n = \frac{1}{3}a_{n-1}$
- $a_1 = 4, a_n = a_{n-1} - 2$
- $a_1 = -1, a_n = (a_{n-1})^2 + 3$
- $a_1 = 7500, a_n = (0.88)a_{n-1} + 600;$   
6022 trees
- $a_1 = 200, a_n = (1.005)a_{n-1} + 70; \$704.52$
- $a_1 = 50, a_n = (0.4)a_{n-1} + 50; \text{about } 83.3 \text{ mg}$