

Answer Key

Practice C

- 8, 10, 14, 22, 38
- 81, 33, 17, $\frac{35}{3}$, $\frac{89}{9}$
- 2, 2, 4, 10, 22
- 1, -2, -6, -15, -31
- 1, 4, -4, -16, 64
- 2, 6, 4, -2, -6
- $a_n = \frac{2}{3}(-2)^{n-1}$; $a_1 = \frac{2}{3}$, $a_n = (-2)a_{n-1}$
- $a_n = -3 - 4n$; $a_1 = -7$, $a_n = a_{n-1} - 4$
- $a_n = \frac{5}{6} - \frac{1}{3}n$; $a_1 = \frac{1}{2}$, $a_n = a_{n-1} - \frac{1}{3}$
- $a_n = -6(0.2)^{n-1}$; $a_1 = -6$, $a_n = (0.2)a_{n-1}$
- $a_n = -10\left(\frac{3}{4}\right)^{n-1}$; $a_1 = -10$, $a_n = \left(\frac{3}{4}\right)a_{n-1}$
- $a_n = -3.5 + 1.5n$; $a_1 = -2$, $a_n = a_{n-1} + 1.5$
- $a_1 = 3$, $a_n = (\sqrt{3})a_{n-1}$
- $a_1 = 4.3$, $a_n = a_{n-1} + 0.6$
- $a_1 = 2$, $a_2 = 3$, $a_n = a_{n-1} \cdot a_{n-2}$
- $a_1 = 24$, $a_2 = 13$, $a_n = a_{n-2} - a_{n-1}$
- $a_1 = 1$, $a_n = 2a_{n-1} + 1$
- $a_n = 2^n - 1$
- 4.25 minutes;
 ≈ 18.20 hours; ≈ 136.19 years
- $a_1 = 1$, $a_n = a_{n-1} + 3^{n-1}$