

Homework 8

Chandler Swift

March 21, 2019

- 4 (a) 1, -2, 4, -8
(b) 3, 3, 3, 3
(c) 8, 11, 23, 71
(d) 2, 0, 8, 0

12 (Attached)

- 16 (b) $a_n = 3n + 1$
(c) $a_n = 4 - \frac{n(n+1)}{2}$
(d) $a_n = -2^{n+2} + 3$
(e) $a_n = (n + 1)! * 2$

- 20 (a) $a_n = a_{n-1} \cdot 1.0112, a_{2017} = 7.6 \times 10^9$
(b) $a_n = (7.6 \times 10^9)(1.0112^n)$
(c) 11 billion

- 30 (a) 16
(b) 84
(c) $\frac{176}{105} \approx 1.67619$
(d) 4

- 32 (a) 8
(b) 3025
(c) 7325
(d) 255

36 (Attached)

38 (Attached)