

# Answer Key

## Practice C

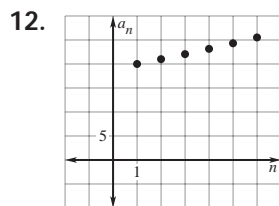
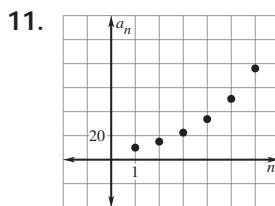
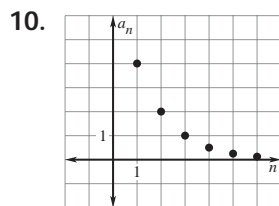
1.  $-3$    2.  $-\frac{1}{4}$    3.  $\frac{3}{4}$

4.  $a_n = -3\left(-\frac{1}{4}\right)^{n-1}; \frac{3}{16,384}$

5.  $a_n = 2(-0.4)^{n-1}; -0.0033$

6.  $a_n = 7(4)^{n-1}; 114,688$    7.  $a_n = 5(1.1)^{n-1}$

8.  $a_n = -1024\left(\frac{1}{4}\right)^{n-1}$    9.  $a_n = \frac{1}{19,683}(3)^{n-1}$



13. a. about 5.79  
b. 2

14. a. about 3.33  
b. 4

15. about 8.93

16. about  $-7.50$

17. about 62.34

18.  $a_n = 25,000(0.75)^{n-1}$ ; about 3.55 years

19. about 324 in.<sup>2</sup>