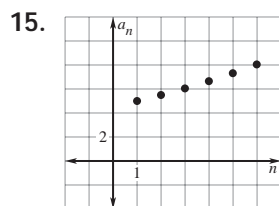
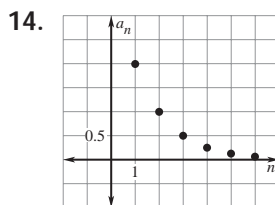
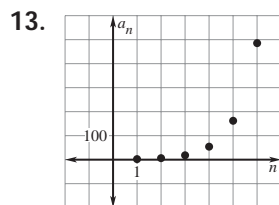


# Answer Key

## Practice B

1. arithmetic; common difference of  $-3$
2. geometric; common ratio of  $-\frac{1}{4}$
3. neither; no common ratio or difference
4. 3    5.  $-4$     6.  $\frac{2}{3}$     7.  $a_n = 4\left(\frac{1}{2}\right)^{n-1}; \frac{1}{32}$
8.  $a_n = 1\left(\frac{4}{9}\right)^{n-1}; \frac{16,384}{4,782,968}$
9.  $a_n = 2(-4)^{n-1}; -32,768$     10.  $a_n = 8\left(\frac{1}{2}\right)^{n-1}$
11.  $a_n = -4\left(\frac{1}{8}\right)^{n-1}$     12.  $a_n = 2(-2)^{n-1}$



16. a.  $-13,107$   
b. 6
17. a. about 232.74  
b. 9
18.  $-1640$

19. about 45.33    20. about 14.00
21.  $a_n = 5000(1.15)^{n-1}$ ; about 23,262 bacteria
22.  $126 \text{ in.}^2$