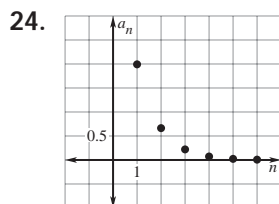
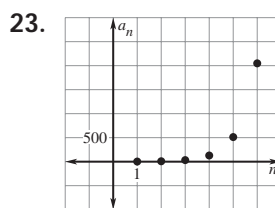
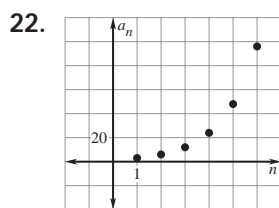


# Answer Key

## Practice A

1. geometric; common ratio of  $-4$
2. neither; no common ratio or difference
3. neither; no common ratio or difference
4. arithmetic; common difference of  $3$
5. arithmetic; common difference of  $9$
6. geometric; common ratio of  $\frac{1}{2}$     7.  $\frac{4}{3}$
8.  $-4$     9.  $\frac{1}{2}$     10.  $a_n = -5(-2)^{n-1}$ ;  $160$
11.  $a_n = 5(3)^{n-1}$ ;  $1215$     12.  $a_n = 4\left(\frac{3}{2}\right)^{n-1}$ ;  $\frac{243}{8}$
13.  $a_n = 1\left(\frac{2}{3}\right)^{n-1}$ ;  $\frac{32}{243}$
14.  $a_n = -4(-4)^{n-1}$ ;  $4096$
15.  $a_n = 100\left(\frac{1}{20}\right)^{n-1}$ ;  $3.125 \times 10^{-5}$
16.  $a_n = 6\left(\frac{1}{2}\right)^{n-1}$     17.  $a_n = 1\left(\frac{3}{5}\right)^{n-1}$
18.  $a_n = 7(-3)^{n-1}$     19.  $a_n = 15\left(\frac{2}{3}\right)^{n-1}$
20.  $a_n = 2(-3)^{n-1}$     21.  $a_n = 5(6)^{n-1}$



25. a.  $349,525$     b.  $8$
26. a.  $-43,690$     b.  $7$
27. about  $8.00$
28.  $6,046,617.5$
29. about  $12.00$

30.  $\$10.23$  for 10 days;  $\$10,485.75$  for 20 days;  
 $\$10,737,418.23$  for 30 days