

ANSWER PRESENTATION TOOL

Algebra 1 - Student Edit

6

6 - Exercises

4-32 even, :

ALL EVEN

Show Solu

ODD

4. $\frac{1}{6}$

6. 10

8. $-\frac{1}{3}$

10. neither; There is no common difference or common ratio.

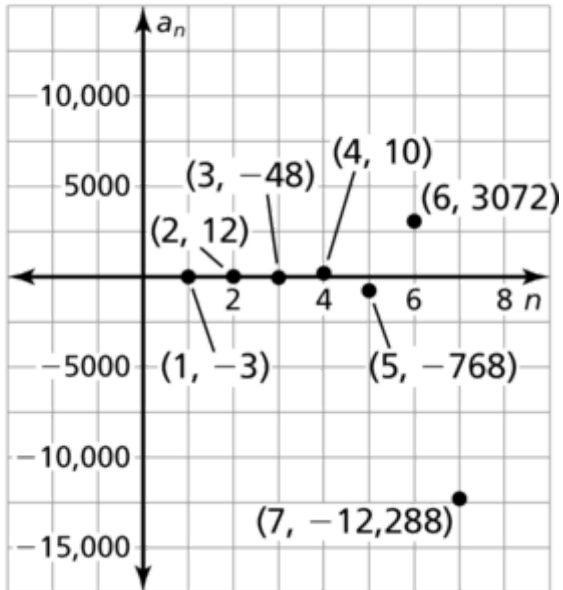
12. geometric; There is a common ratio of 7.

14. arithmetic; There is a common difference of 7.

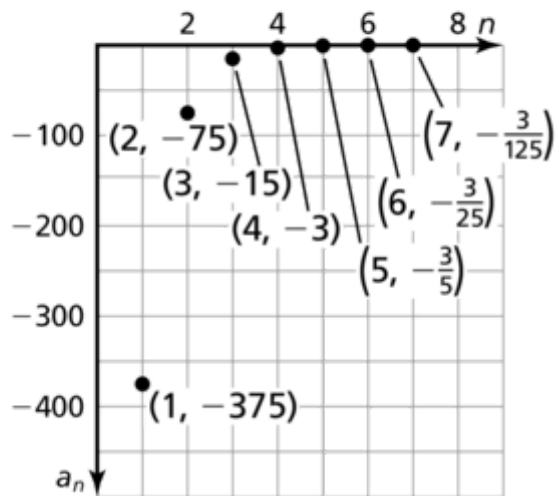
16. neither; There is no common difference or common ratio.

18. arithmetic; There is a common difference of 9.

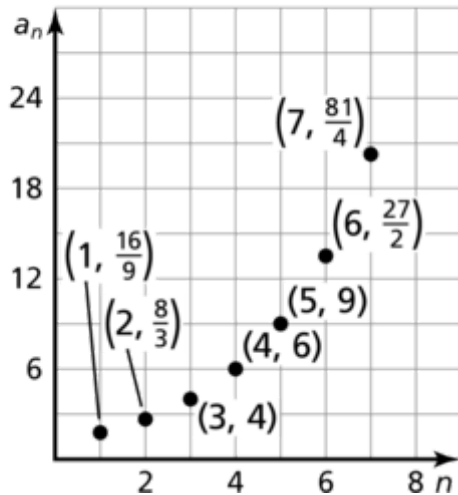
20. $-768; 3072; -12,288$



22. $-\frac{3}{5}, -\frac{3}{25}, -\frac{3}{125}$



24. $9, \frac{27}{2}, \frac{81}{4}$



26. $a_n = 0.6(-5)^{n-1}; -1875$

28. $a_n = 0.1(9)^{n-1}; 5904.9$

30. $a_n = -192\left(-\frac{1}{4}\right)^{n-1}; \frac{3}{16}$

32. $a_n = 224\left(\frac{1}{2}\right)^{n-1}; 7$

35. The common factor is $-\frac{1}{2}$, not -2 ;

$$\begin{array}{ccccccc} -8, & & 4, & & -2, & & 1, \dots \\ & \curvearrowright & & \curvearrowright & & \curvearrowright & \\ & \times(-\frac{1}{2}) & & \times(-\frac{1}{2}) & & \times(-\frac{1}{2}) & \end{array}$$

The next three terms are $-\frac{1}{2}$, $\frac{1}{4}$, and $-\frac{1}{8}$.

36. The common ratio is 6, not -6 ; The first term is -2 and the common ratio is 6; $a_n = a_1 r^{n-1}$; $a_n = -2(6)^{n-1}$

38. a. $a_n = 6^n$

b. 4 days