

Exend

Saturday, August 10, 2019 10:17 AM

E. 24 p. 44



$a, b, c \equiv$ with. seq.
n: 1 2 3

$$t_n = a + (n-1)d$$

$$\begin{cases} b = a + (2-1)d = a + d \\ c = a + (3-1)d = a + 2d = b + d \end{cases}$$

$$\begin{aligned} 6^a, 6^b, 6^c &\equiv 6^a, 6^{a+d}, 6^{b+d} \\ &\equiv 6^a, 6^{a+d}, 6^{a+d+d} \\ &\equiv 6^a, 6^{a+d}, 6^{a+d+d} \\ &\quad \leftarrow \text{prev. term.} \quad \text{prev. term.} \rightarrow \\ &\quad r = 6^d \end{aligned}$$

$$t_n = t_{n-1} \times r, r = 6^d$$

fulfills the req. f a geo. seq. ✓