

Find the missing term:

Arithmetic

1. 7, 16, 25, ...

$$\frac{7+25}{2} =$$

Geometric

2. 9, 27, 81, ...

$$\sqrt{(9 \cdot 81)}$$

3. Identify the explicit formula that represents the arithmetic sequence that has a common difference of 4 and a 15th term of 71.

$$a_n = a_1 + (n-1)(d)$$

$$71 = a_1 + (15-1)(4)$$

$$71 = a_1 + 56$$

$$\begin{array}{r} -56 \\ \hline 15 = a_1 \end{array}$$

$$15 = a_1$$

$$a_n = 15 + (n-1)(4)$$