

Solutions for practice in 6.2 Arithmetic Sequences and Series

1. If $a_4 = 12$ and $a_7 = 3$ in an arithmetic sequence, write the first seven terms of the sequence.

$$\begin{array}{lcl}
 a_4 = 12 &) \text{ same diff} & \\
 a_5 = &) \text{ same diff} & \\
 a_6 = &) \text{ same diff} & \\
 a_7 = 3 & &
 \end{array}
 \left. \vphantom{\begin{array}{l} a_4 \\ a_5 \\ a_6 \\ a_7 \end{array}} \right\} \begin{array}{l} \text{total diff} \\ \text{is } 9, \text{ so each diff} \\ \text{is } \frac{9}{3} = 3 \end{array}$$

$$\begin{array}{cccc}
 a_7 = 3 & a_6 = 6 & a_5 = 9 & a_4 = 12 \\
 a_3 = 15 & a_2 = 18 & a_1 = 21 &
 \end{array}$$

2. Determine the 80th term and the sum of 80 terms of this sequence: 18, 13, 8, 3, ...

$$a_1 = 18$$

$$d = -5$$

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

$$\begin{aligned}
 a_{80} &= 18 + (80-1) \cdot (-5) \\
 &= 18 - 80 \cdot 5 + 5 \\
 &= 23 - 400 \\
 &= -377
 \end{aligned}$$

$$S_n = \frac{n}{2} (a_1 + a_n)$$

$$\begin{aligned}
 S_{80} &= \frac{80}{2} (18 - 377) = \\
 &= 40 \cdot (-359) = \\
 &= -14360
 \end{aligned}$$

Arithmetic Sequences And Series Practice Problems

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