

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.

$$\begin{array}{l}
 a_4 = 12 \\
 a_5 = \\
 a_6 = \\
 a_7 = 3
 \end{array}
 \quad
 \begin{array}{l}
 \text{same diff} \\
 \text{same diff} \\
 \text{same diff}
 \end{array}
 \quad
 \begin{array}{l}
 \text{total diff} \\
 \text{is } 9, \text{ so each diff} \\
 \text{is } \frac{9}{3} = 3
 \end{array}$$

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

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

**Jimmie Gilbert,James Spencer,Linda
Gilbert**

Arithmetic Sequences And Series Practice Problems:

Sequences and Series Marilyn Occhiogrosso,2010-09-01 This easy to use packet is full of stimulating activities that will give your students a solid introduction to sequences and series A variety of lessons puzzles mazes and practice problems will challenge students to think creatively as they work to build their precalculus skills Each lesson begins with a clear explanation and provides extra review and reinforcement

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