Lesson 9.2 Practice: Arithmetic Sequences and Series

School Launch · Algebra II · Unit 9: Sequences and Series · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Find the sum of the first 25 terms of the arithmetic series $3 + 10 + 17 + \cdots$ EASY

2. Find the sum of the first 10 terms of the arithmetic series $18 + 14 + 10 + \cdots$ EASY

3. Find the sum of the first 33 terms of the arithmetic series $-7 + -5 + -3 + \cdots$ EASY

4. Find the sum of the first 40 terms of the arithmetic series $-9 + -8 + -7 + \cdots$ MEDIUM

5. Find the sum of the first 34 terms of the arithmetic series $-6 + -3 + 0 + \cdots$ MEDIUM

6. Find the sum of the first 18 terms of the arithmetic series $-9 + -6 + -3 + \cdots$ MEDIUM

7. Find the sum of the first 19 terms of the arithmetic series $7 + 4 + 1 + \cdots$ MEDIUM

8. Find the sum of the first 37 terms of the arithmetic series $9 + 4 + -1 + \cdots$ HARD

9. Find the sum of the first 16 terms of the arithmetic series $1 + 7 + 13 + \cdots$ HARD

10. Find the sum of the first 12 terms of the arithmetic series $-4 + -9 + -14 + \cdots$ HARD