Name

- 1. Find the sum of the series $3+5+7+9+\cdots+57$.
- 3. Find the sum of the series $5-2-9-16\cdots-156$.
- 5. In an arithmetic series, find the sum of the first 48 terms if the first term is -6 and the common difference is 2.
- 7. Find the sum of the first 16 terms of the sequence $-18, -15, -12, \dots$
- 9. Find the sum of the terms of the arithmetic sequence $-29, -25, -21, \dots, 91$.
- 11. How many terms of the arithmetic series $25 + 19 + 13 + \cdots$ are required to give a sum of -20?
- 13. If $a_5 = 16$ and $a_{11} = 4$ in an arithmetic sequence, find the sum of the first 20 terms.
- 15. If $a_{13} = 7$ and $a_{17} = 23$ in an arithmetic sequence, find the sum of the first 20 terms.
- 17. Find the sum of the integers 2 through 51.
- 19. Find the sum of the even integers 38 through 62.
- 21. Find the sum of all the positive multiples of 3 which are less than 100.
- 23. Find the sum of all the even integers between 37 and 81.

- 2. Find the sum of the series $1-3-7-11\cdots-51$.
- 4. In an arithmetic series, $a_1 = -12$ and $a_{14} = 54$. Find the sum of the first 14 terms.
- 6. In an arithmetic series, find the sum of the first n terms if the first term is -11, the common difference is 4, and the nth term is 137.
- 8. Find the sum of the terms of the arithmetic sequence $22, 25, 28, \ldots, 73$.
- 10. How many terms of the arithmetic series $(-10) + (-7) + (-4) + \cdots$ must be added to give a sum of 200?
- 12. How many terms of the arithmetic series $95+90+85+\cdots$ are required to give a sum of 0?
- 14. If $a_7 = 6$ and $a_{13} = 24$ in an arithmetic sequence, find the sum of the first 15 terms.
- 16. In an arithmetic sequence, $a_{10} = 17x 11y$ and $a_{15} = 7x 6y$. Find a_{25} and the sum of the first 25 terms.
- 18. Find the sum of the integers -59 through -16.
- 20. Find the sum of the odd integers 19 through 41.
- 22. Find the sum of all the positive multiples of 5 which are less than 80.
- 24. Find the sum of all the odd integers 15 to 161, inclusive.

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Arithmetic Series Homework 10/27/2017

	840	15. Answer:
CodePath: 2.	EAS.TRI.L.G.1	CodePath:
Answer: CodePath:		Answer: CodePath:
	-1812 EAS.TRI.L.G.6	17. Answer:
4.	EAS.TRI.E.G.0	CodePath:
Answer: CodePath:	-01	Answer: CodePath:
5. Answer: CodePath:	1968 EAS.TRI.L.G.18	19. Answer: CodePath:
6. Answer: CodePath:	2394 EAS.TRI.L.G.24	20. Answer: CodePath:
7. Answer: CodePath:	72 EAS.TRI.L.G.30	21. Answer: CodePath:
8. Answer: CodePath:	855 EAS.TRI.L.G.37	22. Answer: CodePath:
9. Answer: CodePath:	961 EAS.TRI.L.G.39	23. Answer: CodePath:
10. Answer: CodePath:	16 EAS.TRI.L.G.41	24. Answer: CodePath:
11. Answer: CodePath:	10 EAS.TRI.L.G.43	
12. Answer: CodePath:	39 EAS.TRI.L.G.44	
13. Answer: CodePath:	100 EAS.TRI.L.G.57	
14.		

15.	
Answer: CodePath:	-60 EAS.TRI.L.G.60
16. Answer:	$-13x + 4y, \ 275x - 200y$
CodePath:	EAS.TRI.L.G.63
17. Answer:	1325
CodePath:	EAS.TRI.L.G.70
18. Answer: CodePath:	-1650 EAS.TRI.L.G.71
19.	
Answer: CodePath:	650 EAS.TRI.L.G.74
20.	
Answer: CodePath:	360 EAS.TRI.L.G.77
21.	1609
Answer: CodePath:	1683 EAS.TRI.L.G.81
22.	COO
Answer: CodePath:	600 EAS.TRI.L.G.83
23.	1000
Answer: CodePath:	1298 EAS.TRI.L.G.86
24.	6510
Answer: CodePath:	6512 EAS.TRI.L.G.88

135

EAS.TRI.L.G.58

Answer:

CodePath: