

Arithmetic Series

Date _____ Period _____

Evaluate the related series of each sequence.

1) 13, 15, 17, 19, 21, 23

2) 6, 11, 16, 21, 26, 31, 36

3) 22, 28, 34, 40, 46

4) 39, 49, 59, 69

Evaluate each arithmetic series described.

5) $\sum_{k=1}^{15} (5k - 2)$

6) $\sum_{i=1}^{35} (3i - 13)$

7) $\sum_{m=1}^{15} 4m$

8) $\sum_{m=1}^{30} (7m - 2)$

9) $\sum_{i=1}^6 3i$

10) $\sum_{n=1}^{25} (3n - 9)$

11) $a_1 = 42$, $a_n = 146$, $n = 14$

12) $a_1 = 4$, $a_n = 22$, $n = 10$

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D Keegan



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What Mathematics from Africa? Giandomenico Sica, 2005 **Saṅg-ita Ratn-akara of Ś-araṅgadeva: Chapter I**
Ś-araṅgadeva, 1999 **Introducing the Oscillations Based Paradigm** Darius Plikynas, 2016-06-16 The book presents a conceptually novel oscillations based paradigm the Oscillation Based Multi Agent System OSIMAS aimed at the modelling of agents and their systems as coherent stylized neurodynamic processes This paradigm links emerging research domains via coherent neurodynamic oscillation based representations of the individual human mind and society as a coherent collective mind states Thus this multidisciplinary paradigm delivers an empirical and simulation research framework that provides a new way of modelling the complex dynamics of individual and collective mind states This book addresses a conceptual problem the lack of a multidisciplinary connecting paradigm which could link fragmented research in the fields of neuroscience artificial intelligence AI multi agent system MAS and the social network domains The need for a common multidisciplinary research framework essentially arises because these fields share a common object of investigation and simulation i e individual and collective human behavior Although the fields of research mentioned above all approach this from different perspectives their common object of investigation unites them By putting the various pathways of research as they are interrelated into perspective this book provides a philosophical underpinning experimental background and modelling tools that the author anticipates will reveal new frontiers in multidisciplinary research Fundamental investigation of the implicit oscillatory nature of agents mind states and social mediums in general can reveal some new ways of understanding the periodic and nonperiodic fluctuations taking place in real life For example via agent states related diffusion properties we could investigate complex economic phenomena like the spread of stock market crashes currency crises speculative oscillations bubbles and crashes social unrest recessionary effects sovereign defaults etc All these effects are closely associated with social fragility which follows and is affected by cycles such as production political business and financial Thus the multidisciplinary OSIMAS paradigm can yield new knowledge and research perspectives allowing for a better understanding of social agents and their social organization principles **Geometry from Africa** Paulus Gerdes, 1999-12-31 This book draws on geometric ideas from cultural activities from Sub Saharan Africa and demonstrates how they may be explored to develop mathematical reasoning from school level through to university standard Paulus Gerdes provides a thoroughly illustrated and researched exploration of mathematical ideas motifs and patterns Many important mathematical points are brought to the fore not via the formal theorem proof method but in a more schematic and diagrammatic manner African artifacts oral traditions sand drawing and other forms of artwork with a geometric basis all provide mathematical ideas for discussion in this unique book Mathematicians and teachers of mathematics at all levels will be fascinated as will anybody with an interest in African cultures Saṅgita-ratnākara of Śāraṅgadeva: Treatment of svara
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