23. A perfect number is a positive integer that is equal to the sum of its positive divisors except the number itself. The first two perfect numbers are 6 and 28 since 6 = 1+2+3 and 28 = 1+2+4+7+14. Write a computer program that finds the first four perfect numbers.

#### Solution

Script file:

clear, clc 3-20 for N=2:10000 clear div div(1)-1; kc = 2l xfor i=2:fix(N/2) if rem(N, i) == 0 div(k)-ir 10-10+1 h end end if sum(div) -- 20 PerfectN(1) -N; 5-5-1: end endi PerfectN

### Command Window:

PerfectN = 6 28 496 8128 >>

# **Chapter Solutions Matlab**

Stuart M. Wentworth

# **Chapter Solutions Matlab:**

A Guide to MATLAB Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Kevin R. Coombes, John E. Osborn, Garrett J. Stuck, 2006-06-08 This is a short focused introduction to MATLAB a comprehensive software system for mathematical and technical computing It contains concise explanations of essential MATLAB commands as well as easily understood instructions for using MATLAB's programming features graphical capabilities simulation models and rich desktop interface Written for MATLAB 7 it can also be used with earlier and later versions of MATLAB This book teaches how to graph functions solve equations manipulate images and much more It contains explicit instructions for using MATLAB s companion software Simulink which allows graphical models to be built for dynamical systems MATLAB s new publish feature is discussed which allows mathematical computations to be combined with text and graphics to produce polished integrated interactive documents For the beginner it explains everything needed to start using MATLAB while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here Calculus with MATLAB® Ronald L. Lipsman, Jonathan M. Rosenberg, 2017-12-06 This comprehensive treatment of multivariable calculus focuses on the numerous tools that MATLAB brings to the subject as it presents introductions to geometry mathematical physics and kinematics Covering simple calculations with MATLAB relevant plots integration and optimization the numerous problem sets encourage practice with newly learned skills that cultivate the reader s understanding of the material Significant examples illustrate each topic and fundamental physical applications such as Kepler's Law electromagnetism fluid flow and energy estimation are brought to prominent position Perfect for use as a supplement to any standard multivariable calculus text a mathematical methods in physics or engineering class for independent study or even as the class text in an honors multivariable calculus course this textbook will appeal to mathematics engineering and physical science students MATLAB is tightly integrated into every portion of this book and its graphical capabilities are used to present vibrant pictures of curves and surfaces Readers benefit from the deep connections made between mathematics and science while learning more about the intrinsic geometry of curves and surfaces With serious yet elementary explanation of various numerical algorithms this textbook enlivens the teaching of multivariable calculus and mathematical methods courses for scientists and engineers **Discrete Fourier Analysis and Wavelets S.** Allen Broughton, Kurt Bryan, 2018-04-03 Delivers an appropriate mix of theory and applications to help readers understand the process and problems of image and signal analysis Maintaining a comprehensive and accessible treatment of the concepts methods and applications of signal and image data transformation this Second Edition of Discrete Fourier Analysis and Wavelets Applications to Signal and Image Processing features updated and revised coverage throughout with an emphasis on key and recent developments in the field of signal and image processing Topical coverage includes vector spaces signals and images the discrete Fourier transform the discrete cosine transform convolution and filtering windowing

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The new coverage also expands upon the discussion on spectrograms using a frames approach In addition the book includes a new chapter on lifting schemes for wavelets and provides a variation on the original low pass high pass filter bank approach to the design and implementation of wavelets These new chapters also include appropriate exercises and MATLAB projects for further experimentation and practice Features updated and revised content throughout continues to emphasize discrete and digital methods and utilizes MATLAB to illustrate these concepts Contains two new chapters on frames and lifting schemes which take into account crucial new advances in the field of signal and image processing Expands the discussion on spectrograms using a frames approach which is an ideal method for reconstructing signals after information has been lost or corrupted packet erasure Maintains a comprehensive treatment of linear signal processing for audio and image signals with a well balanced and accessible selection of topics that appeal to a diverse audience within mathematics and engineering Focuses on the underlying mathematics especially the concepts of finite dimensional vector spaces and matrix methods and provides a rigorous model for signals and images based on vector spaces and linear algebra methods Supplemented with a companion website containing solution sets and software exploration support for MATLAB and SciPy Scientific Python Thoroughly class tested over the past fifteen years Discrete Fourier Analysis and Wavelets Applications to Signal and Image Processing is an appropriately self contained book ideal for a one semester course on the subject **Structures and Fracture Ebook** Collection Uwe Zerbst, Victor Giurgiutiu, Frank J. 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