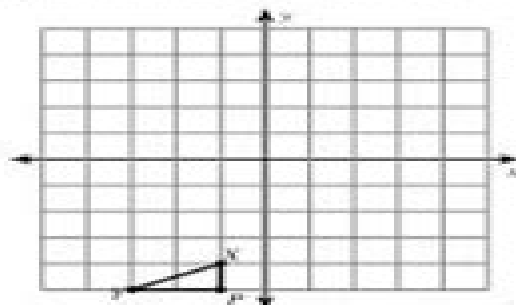


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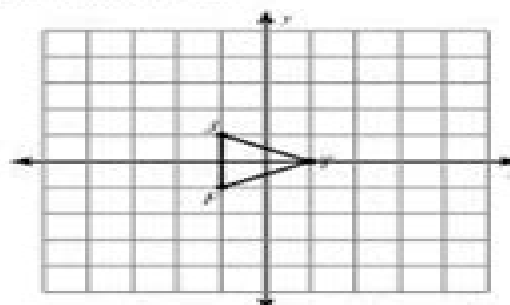
Date _____ Period _____

Graph the image of the figure using the transformation given.

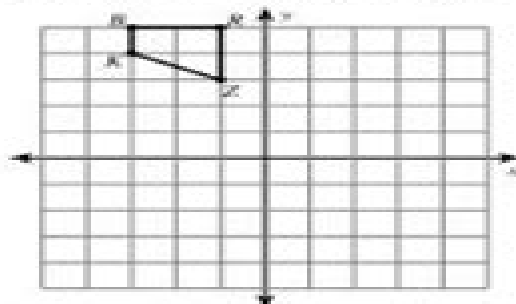
- 1) translation: 2 units left and 7 units up



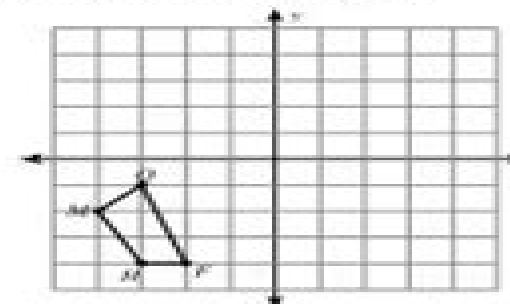
- 2) dilation of 2.5



- 3) rotation
- 180°
- about the origin



- 4) reflection across the y-axis



Find the coordinates of the vertices of each figure after the given transformation.

- 5) rotation
- 90°
- clockwise about the origin

$$\begin{bmatrix} -4 & 1 & -2 \\ -4 & -3 & -5 \end{bmatrix}$$

- 6) translation: 5 units left and 5 units up

$$\begin{bmatrix} 2 & 0 & 1 & 4 \\ -3 & 0 & 0 & -2 \end{bmatrix}$$

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Numerical Algebra, Matrix Theory, Differential-Algebraic Equations and Control Theory Peter Benner, Matthias Bollhöfer, Daniel Kressner, Christian Mehl, Tatjana Stykel, 2015-05-09 This edited volume highlights the scientific contributions of Volker Mehrmann a leading expert in the area of numerical linear algebra matrix theory differential algebraic equations and control theory These mathematical research areas are strongly related and often occur in the same real world applications The main areas where such applications emerge are computational engineering and sciences but increasingly also social sciences and economics This book also reflects some of Volker Mehrmann's major career stages Starting out working in the areas of numerical linear algebra his first full professorship at TU Chemnitz was in Numerical Algebra hence the title of the book and matrix theory Volker Mehrmann has made significant contributions to these areas ever since The highlights of these are discussed in Parts I and II of the present book Often the development of new algorithms in numerical

linear algebra is motivated by problems in system and control theory These and his later major work on differential algebraic equations to which he together with Peter Kunkel made many groundbreaking contributions are the topic of the chapters in Part III Besides providing a scientific discussion of Volker Mehrmann's work and its impact on the development of several areas of applied mathematics the individual chapters stand on their own as reference works for selected topics in the fields of numerical linear algebra matrix theory differential algebraic equations and control theory *Catalog of National Bureau of Standards Publications, 1966-1976: Citations and abstracts* United States. National Bureau of Standards. Technical Information and Publications Division, 1978 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), 1971 **Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards, 1978 **Discrete Wavelet Transformations** Patrick J. Van Fleet, 2019-04-09 Updated and Expanded Textbook Offers Accessible and Applications First Introduction to Wavelet Theory for Students and Professionals The new edition of *Discrete Wavelet Transformations* continues to guide readers through the abstract concepts of wavelet theory by using Dr Van Fleet's highly practical application based approach which reflects how mathematicians construct solutions to challenges outside the classroom By introducing the Haar orthogonal and biorthogonal filters without the use of Fourier series Van Fleet allows his audience to connect concepts directly to real world applications at an earlier point than other publications in the field Leveraging extensive graphical displays this self contained volume integrates concepts from calculus and linear algebra into the constructions of wavelet transformations and their applications including data compression edge detection in images and denoising of signals Conceptual understanding is reinforced with over 500 detailed exercises and 24 computer labs The second edition discusses new applications including image segmentation pansharpening and the FBI fingerprint compression specification Other notable features include Two new chapters covering wavelet packets and the lifting method A reorganization of the presentation so that basic filters can be constructed without the use of Fourier techniques A new comprehensive chapter that explains filter derivation using Fourier techniques Over 120 examples of which 91 are live examples which allow the reader to quickly reproduce these examples in Mathematica or MATLAB and deepen conceptual mastery An overview of digital image basics equipping readers with the tools they need to understand the image processing applications presented A complete rewrite of the *DiscreteWavelets* package called *WaveletWare* for use with Mathematica and MATLAB A website www.stthomas.edu/wavelets featuring material containing the *WaveletWare* package live examples and computer labs in addition to companion material for teaching a course using the book Comprehensive and grounded this book and its online components provide an excellent foundation for developing undergraduate courses as well as a valuable resource for mathematicians signal process engineers and other professionals seeking to understand the practical applications of discrete wavelet transformations in solving real world challenges [Publications of the National Bureau of Standards ... Catalog](#)

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