

Answer Key – Computer Animation

1. The first step in computer animation is for the animator to create a simplified representation of a character's anatomy, analogous to a skeleton. Enter key points in your image in a $2 \times n$ matrix, where the x -coordinate of a point is in the top row, and the y -coordinate of the point is in the bottom row. There will be one column for each point in your shape. Call this matrix S (for "skeleton").

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

2. Find each product below, and graph the shape that results on a sheet of graph paper. Below each matrix, write a brief description of how the shape is "transformed" by the matrix multiplication. Use geometric terms such as reflection, rotation, stretching, translation. Be as precise as you can, telling where the line of reflection is, or in which direction the rotation occurs.

$$a) \begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix} S =$$

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



Geometric Description: Reflecting over the y -axis

02 Computer Animation Answer Key

**Chew Fong Peng, Adelina
Asmawi, Chuanjun Zhao**



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Computer Animation Rick Parent, 2007-11-01 Driven by the demands of research and the entertainment industry the techniques of animation are pushed to render increasingly complex objects with ever greater life like appearance and motion This rapid progression of knowledge and technique impacts professional developers as well as students Developers must maintain their understanding of conceptual foundations while their animation tools become ever more complex and specialized The second edition of Rick Parent s Computer Animation is an excellent resource for the designers who must meet this challenge The first edition established its reputation as the best technically oriented animation text This new edition focuses on the many recent developments in animation technology including fluid animation human figure animation and soft body animation The new edition revises and expands coverage of topics such as quaternions natural phenomenon facial animation and inverse kinematics The book includes up to date discussions of Maya scripting and the Maya C API programming on real time 3D graphics hardware collision detection motion capture and motion capture data processing New up to the moment coverage of hot topics like real time 3D graphics collision detection fluid and soft body animation and more Companion site with animation clips drawn from research entertainment and code samples Describes the mathematical and algorithmic foundations of animation that provide the animator with a deep understanding and control of technique

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latest computer animation styles and techniques this versatile guide provides insightful information for creating animations and visual effects from creative development and preproduction to finished animation Designed to work with any computer platform this Fourth Edition cuts through technical jargon and presents numerous easy to understand instructive diagrams Full color examples are presented including VFX and animated feature movies games and TV commercials by such leading companies as Blue Sky Blur BUF Disney DreamWorks Electronic Arts Framestore ILM Imagi Microsoft Mac Guff The Mill Menfond Pixar Polygon Rhythm Hues Sony Imageworks Tippett Ubisoft and Weta and many other studios and groundbreaking independent artists from around the world This fully revised edition features new material on the latest visual effects techniques a useful update of the traditional principles of animation practical information on creative development multiple production pipeline ideas for shorts and visual effects plus updated information on current production trends and techniques in animation rendering modeling rigging and compositing Whether you are a student an independent artist or creator or a production company team member The Art of 3D Computer Animation and Effects Fourth Edition gives you a broad palette of tips and techniques for bringing your visions to life through 3D computer animation Unique focus on creative development and production issues Non platform specific with multiple examples illustrated in a practical step by step approach The newest computer animation techniques including facial animation image based and non photorealistic rendering model rigging real time models and 2D 3D integration Over 700 full color images Encyclopedic timeline and production pipelines

Computer Animation '91 Nadia Magnenat-Thalmann, Daniel Thalmann, 2012-12-06 This book contains invited papers and a selection of research papers submitted to Computer Animation 91 the third international workshop on Computer Animation which was held in Geneva on May 22 24 This workshop now an annual event has been organized by the Computer Graphics Society the University of Geneva and the Swiss Federal Institute of Technology in Lausanne During the international workshop on Computer Animation 91 the fourth Computer generated Film Festival of Geneva was held The book presents original research results and applications experience of the various areas of computer animation This year most papers are related to character animation human animation facial animation and motion control

NA DIA MAGNENAT THALMANN DANIEL THALMANN v Table of Contents Part I Facial Animation Contral Parameterization for Facial Animation F I PARKE 3 Linguistic Issues in Facial Animation C PELACHAUD N BADLER M STEEDMAN 15 Facial Animation by Spatial Mapping E C PATTERSON P c LITWINOWICZ N GREENE 31 A Transformation Method for Modeling and Animation of the Human Face from Photographs T KURIHARA K ARAI 45 Techniques for Realistic Facial Modeling and Animation D TERZOPOULOS K WATERS 59 Part II Human Modeling and Animation Generation of Human Motion with Emotion M UNUMA R TAKEUCHI 77 Creating Realistic Three Dimensional Human Shape Characters for Computer Generated Films A PAOURI N MAGNENAT THALMANN D THALMANN 89 Design of Realistic Gaits for the Purpose of Animation N VASILONIKOLIDAKIS G J CLAPWORTHY

ACM SIGGRAPH Symposium on Computer Animation ,2005

Advances in Discrete and Computational Geometry Bernard Chazelle, Jacob E. Goodman, Richard Pollack, 1999 This volume is a collection of refereed expository and research articles in discrete and computational geometry written by leaders in the field Articles are based on invited talks presented at the AMS IMS SIAM Summer Research Conference Discrete and Computational Geometry Ten Years Later held in 1996 at Mt Holyoke College So Hadley MA Topics addressed range from tilings polyhedra and arrangements to computational topology and visibility problems Included are papers on the interaction between real algebraic geometry and discrete and computational geometry as well as on linear programming and geometric discrepancy theory **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.), 1992

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