

SUBJECT: Transformation Matrices- AS-Level Mathematics

CONTENT: Transformation matrices; Linear Transformation; Unit Square Transformation; Finding the Transformation Matrix for Rotation about the Origin; Finding the Transformation Matrix for Reflection in a Straight-Line through the Origin; Stretch Transformation Matrix; Enlargement Transformation Matrix; Translation; Combination of Transformations

DOCUMENT TYPE: Study Guide

SCHOOL: ESDC Tuition Centre

1 Transformation matrices

- i. Geometrically, Matrices represent transformations which may cause a change in shape of geometric figure or change in location of a point in the Cartesian plane.
- ii. Some examples of transformations are:
 - a. Reflection
 - b. Rotation
 - c. Enlargement

Definition- Invariancy

An Invariant (or fixed) Point or Line is one which maps onto itself. Thus if a point $P(x_o, y_o)$ is Invariant, then following condition must be satisfied:

$$\begin{pmatrix} x_o \\ y_o \end{pmatrix} = \begin{pmatrix} x' \\ y' \end{pmatrix}$$

Where:

$$P(x', y') = \text{Image of } P(x_o, y_o)$$

Study Guide Intervention Transformation With Matrices

RD Boyd

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Biomedical Image Registration Benoit Dawant,Gary E Christensen,J. Michael Fitzpatrick,Daniel Rueckert,2012-06-24 This book constitutes the refereed proceedings of the 5th International Workshop on Biomedical Image Registration WBIR 2012 held in Nashville Tennessee USA in July 2012 The 20 full papers and 11 poster papers included in this volume were carefully reviewed and selected from 44 submitted papers They full papers are organized in the following topical sections multiple image sets brain non rigid anatomy and frameworks and similarity measures *Handbook of Psychology, Research Methods in Psychology* Irving B. Weiner,John A. Schinka,Wayne F. Velicer,2012-10-23 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can t help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology s new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology *Handbook of Psychology, Research Methods in Psychology* John A. Schinka,Wayne F. Velicer,2003-03-19 Includes established theories and cutting edge developments Presents the work of an international group of experts Presents the nature origin implications an future course of major unresolved issues in the area *New methodological, intervention and neuroscientific perspectives in sports psychology* Antonio Hernández-Mendo,M. Teresa Anguera,Verónica Morales-Sánchez,Jose María Carames

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