

Name: \_\_\_\_\_  
 Period: \_\_\_\_\_

## CORRELATION LAB

SECTION	POINTS	OUT OF
PRE-LAB QUESTIONS		9
PROCEDURE #1		8
PROCEDURE #2		10
PROCEDURE #3		12
CONCLUSION QUESTIONS		10

**TOTAL: 49**  
**PERCENT: %**

### OBJECTIVES -

- Students will be able to arrange 4 rock outcrops to correctly correlate each layer by drawing a line connecting them
- Students will be able to use their correlated outcrops to create the geologic column for each location
- Students will be able to identify the location of an unconformity
- Students will be able to use their final geologic correlations to answer conclusion questions

### DIRECTIONS -

Before beginning the lab, use your notes and your knowledge of Earth science to answer the pre-lab questions. Follow the step-by-step directions for each of the 3 correlation procedures. Be sure you use the answer sheet for each one. After completing all 3 procedures, use them and your knowledge of Earth science to answer the conclusion questions.

# Rock Correlation Lab Answer

**Terry C. Jones**



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web if one has a linear transformation in functional form it is easy to determine the transformation matrix a by transforming each of the vectors of the standard basis by t then inserting the result into the columns of a matrix in other words for example the function is a linear transformation

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web in linear algebra a rotation matrix is a transformation matrix that is used to perform a rotation in euclidean space for example using the convention below the matrix rotates points in the xy plane counterclockwise through an angle  $\theta$  about the origin of a two dimensional cartesian coordinate system

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mapped to we can figure out where any other vector is mapped to created by sal khan questions

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web orthogonality of the transformation matrix  $Q$  as in the two dimensional case the transformation matrix is orthogonal  $Q^T Q = I$  this follows from 1 5 11 1 5 13 example consider a cartesian coordinate system with base vectors  $e_i$  a coordinate transformation is carried out with the new basis given by  $\tilde{e}_i$

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web coordinates of  $v$  the standard coordinates are  $v_3$  are the  $b_1$   $b_2$  are assumed if no other basis is specified this means  $v = v_1 e_1 + v_2 e_2 + v_3 e_3$  if  $\{b_1, b_2, b_3\}$  is a basis of  $\mathbb{R}^3$  then the matrix  $S$  which contains the vectors  $b_k$  as column vectors is called the coordinate change matrix

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web the vector  $b$  is parallel to  $a$  and points in the same direction if  $\alpha > 0$  for  $\alpha < 0$  the vector  $b$  is parallel to but points in the opposite direction

opposite direction antiparallel if we multiply an arbitrary vector  $\mathbf{a}$  by the inverse of its magnitude  $1/a$  we obtain a

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web and now that we know what  $D$  is we can now solve for  $A$  we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out  $C$  and  $C^{-1}$  so  $C$  remember  $C$  is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector however translations are very useful in performing coordinate transformations i'll introduce the following terminology for the composite of a linear transformation and a translation definition let  $A$  be a real matrix

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web any vector  $\mathbf{v}$  represented in  $B$  can be transformed to a representation in  $C$  as follows under the transformation of basis notice that the superscript on the transformation matrix  $M$  and the subscript on the coordinate vector  $\mathbf{v}$  are the same and seemingly cancel leaving the remaining subscript

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web jun 28 2021 the transformation matrix between coordinate systems having differing orientations is called the rotation matrix this transforms the components of any vector with respect to one coordinate frame to the components with respect to a second coordinate frame rotated with respect to the first frame

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