

Skills Worksheet

Chapter 5 Concept Review

MATCHING

In the space provided, write the letter of the term or phrase that best matches the description.

- | | |
|---|--------------------------------|
| _____ 1. two types of consumers | a. photosynthesis |
| _____ 2. a diagram showing the many feeding relationships that are in an ecosystem | b. rabbit and coyote |
| _____ 3. the process in which energy from the sun is used by plants to make sugar molecules | c. fossil fuels |
| _____ 4. illustrates the loss of energy from one trophic level to the next | d. producers |
| _____ 5. organisms that get their energy by eating other organisms | e. food web |
| _____ 6. stored carbon from the remains of plants and animals that died millions of years ago | f. consumers |
| _____ 7. organisms that make their own food | g. atmospheric CO ₂ |
| _____ 8. change that occurs on an abandoned farm | h. energy pyramid |
| _____ 9. a part of the carbon cycle | i. algal bloom |
| _____ 10. results from excessive use of fertilizers | j. atmospheric N ₂ |
| _____ 11. organisms that transform atmospheric nitrogen into usable nitrogen compounds | k. food chain |
| _____ 12. part of the nitrogen cycle | l. old-field succession |
| _____ 13. transfer of energy from one organism to another | m. nitrogen-fixing bacteria |

Holt Chapter 1 Section Review Answer Keys

Environmental Science

Julia Schneider



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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 $\begin{pmatrix} 1 & 5 \\ 11 & 15 \end{pmatrix}$ example consider a cartesian coordinate system with base vectors e_i a coordinate transformation is carried out with the new basis given by $\begin{pmatrix} 3 & 2 \\ 3 & 1 \\ 2 & 3 \\ 3 & 1 \\ 1 & 3 \\ 2 & 3 \end{pmatrix}$

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web coordinates of v the standard coordinates are v_3 are the b_1 b are assumed if no other basis is specified this means $v = 3e_1 + 4e_2 + 4e_5 + 2e_6$ if $b = \{v_1, v_2, v_3\}$ is a basis of $\mathbb{R}^n$ then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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web the vector $\mathbf{b}$ is parallel to $\mathbf{a}$ and points in the same direction if $\alpha > 0$ for $\alpha < 0$ the vector $\mathbf{b}$ is parallel to but points in the 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 $\mathbf{d}$ is we can now solve for $\mathbf{a}$ we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out $\mathbf{c}$ and $\mathbf{c}^{-1}$ so remember $\mathbf{c}$ 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 $\mathbf{a}$ be a real matrix

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

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