

As a consequence of our use of the fact that the mapping $\text{hom}(\text{hom}(A, B), C) \rightarrow \text{hom}(A, \text{hom}(B, C))$ is an isomorphism, we can show that the mapping $\text{hom}(A, \text{hom}(B, C)) \rightarrow \text{hom}(\text{hom}(A, B), C)$ is an isomorphism, too.

Exercise 12.12. If $\text{hom}(A, B)$ is a vector space, then the mapping $\text{hom}(\text{hom}(A, B), C) \rightarrow \text{hom}(A, \text{hom}(B, C))$ is an isomorphism, too. (This is a consequence of the fact that the mapping $\text{hom}(A, \text{hom}(B, C)) \rightarrow \text{hom}(\text{hom}(A, B), C)$ is an isomorphism, too.)

Exercise 12.13. If $\text{hom}(A, B)$ is a vector space, then the mapping $\text{hom}(\text{hom}(A, B), C) \rightarrow \text{hom}(A, \text{hom}(B, C))$ is an isomorphism, too. (This is a consequence of the fact that the mapping $\text{hom}(A, \text{hom}(B, C)) \rightarrow \text{hom}(\text{hom}(A, B), C)$ is an isomorphism, too.)

Exercise 12.14. If $\text{hom}(A, B)$ is a vector space, then the mapping $\text{hom}(\text{hom}(A, B), C) \rightarrow \text{hom}(A, \text{hom}(B, C))$ is an isomorphism, too. (This is a consequence of the fact that the mapping $\text{hom}(A, \text{hom}(B, C)) \rightarrow \text{hom}(\text{hom}(A, B), C)$ is an isomorphism, too.)

Exercises 12.15

Exercise 12.15. If $\text{hom}(A, B)$ is a vector space, then the mapping $\text{hom}(\text{hom}(A, B), C) \rightarrow \text{hom}(A, \text{hom}(B, C))$ is an isomorphism, too.

Exercises 12.16

Exercise 12.16. If $\text{hom}(A, B)$ is a vector space, then the mapping $\text{hom}(\text{hom}(A, B), C) \rightarrow \text{hom}(A, \text{hom}(B, C))$ is an isomorphism, too. (This is a consequence of the fact that the mapping $\text{hom}(A, \text{hom}(B, C)) \rightarrow \text{hom}(\text{hom}(A, B), C)$ is an isomorphism, too.)

Math 12, sec 2, 2022-23

Math 12, sec 2, 2022-23

Math 12, sec 2, 2022-23

Math 12, sec 2, 2022-23