Chapter 7.1, Problem 5E

Problem

Let *IZ* be the identity function defined on the set of all integers, and suppose that *e,* b_i^{jk}, *K(t)*, and *ukj* all represent integers. Find

a. *Iz*(*e*)

b. $I_z\left(b_i^{jk}\right)$

c. *Iz(K(t))*

d. *Iz(ukj)*

Step-by-step solution

Step 1 of 4

(a) Since *e* represents the integer, then, $i_z(e)=e$

Step 2 of 4

(b) $i_z\left(b_i^{jk}\right)=b_i^{jk}$, where b_i^{jk} represents an integer

Step 3 of 4

(c) $i_z\left(k(t)\right)=k(t)$, where $k(t)$ is the integer

Step 4 of 4

(d) $i_z\left(u_{kj}\right)=u_{kj}$, where u_{kj} is the integer and i_z is the integer function