

EXERCISES ON CHAPTER 10

EXERCISES ON THE DEFINITION OF THE INTEGRAL

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1. Let f be a function defined on the interval $[a, b]$. Suppose that f is continuous on $[a, b]$ and that f is differentiable on (a, b) . Show that f is Riemann integrable on $[a, b]$.

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11. Let f be a function defined on the interval $[a, b]$. Suppose that f is continuous on $[a, b]$ and that f is differentiable on (a, b) . Show that f is Riemann integrable on $[a, b]$.

- B. MOIS will establish an Information Technology Security Steering Committee to support the prioritization and implementation of security policies and procedures. The members of the Steering Committee will include, but are not limited to, the Managing Director, the Chief Information Officer, the Commissioner of Records, the Commissioner of Public Property, the Inspector General, the City Solicitor, and the Risk Manager, or their designees.
- C. MOIS will coordinate with City agency heads to ensure the designation of an IT Security Officer for each agency and the establishment of appropriate functions within each agency to institute IT Security policies and procedures.
- D. With the advice of, and in coordination with, the Information Technology Security Steering Committee, MOIS will develop specific policies, procedures and mechanisms to audit, measure, and assure compliance with IT security procedures, including, where appropriate, penalties for violation. On the basis of periodic audits, MOIS will determine the degree to which the City's information and information systems are properly protected and comply with applicable law and regulations.
- E. MOIS will develop such policies, procedures, and mechanisms for the following areas of IT activity, and for such other areas as the Information Technology Security Steering Committee and the CIO determine to be appropriate:
- fraud, embezzlement, electronic and physical sabotage, terrorism, extortion, and industrial espionage
 - erroneous, inaccurate, and inappropriate data
 - privacy
 - infringement of copyright and other propriety rights by City personnel and others, including, but not limited to, use and duplication of software in violation of license terms
 - electronic mail
 - availability of City information and databases to commercial and non-commercial entities and to members of the public
 - service interruption and data loss due to technical failures or natural and other disasters
 - integrity and security of City information and databases, including protection against unauthorized access and unauthorized disclosure
 - security of micro-computers and computer networks
 - the City's Internet site
 - education of City employees with respect to copyright and other applicable law and IT security policies
 - compliance assurance

- F. MOIS and the Department of Public Property, Communications Division, will jointly establish a policy and specific procedures governing access to and use of the Internet by City employees. The Department of Public Property, Communications Division, will manage and administer Internet use and access in accordance with such policy and procedures, including, but not limited to, establishing user profiles and access levels, and monitoring and auditing user access through telephone lines, wireless transmission, the Internet firewall, and otherwise.

SECTION 3 RESPONSIBILITIES OF CITY AGENCIES

- A. City agencies will, in coordination with the MOIS IT Security Officer, *designate* Agency IT Security Officers and establish appropriate functions to implement IT security policies and procedures.
- B. City agencies will institute policies and procedures sufficient to ensure compliance with all laws, regulations, and City policies governing City information systems and the use of computer hardware and software.

SECTION 4 INVESTIGATIONS AND CONTROL

- A. Agency IT Security Officers will report serious instances of security violations to the MOIS Information Technology Security Officer and the Inspector General's Office. Security violations may involve any part or aspect of the City's information systems including, but not limited to, local area and citywide networks, software applications, hardware/software systems, data, physical environment, unauthorized access to City premises where IT functions are performed, theft of or damage to computer hardware and other IT equipment, software, or data, unauthorized disclosure of City data, violation of copyright and other applicable law, fraud, and misuse of City information systems.
- B. The Inspector General will be primarily responsible for conducting investigations of serious security violations. The Inspector General will inform MOIS, and where appropriate, the Department of Public Property, Communications Division, of the result of its investigations so that security vulnerabilities may be identified and addressed. MOIS and the Department of Public Property, Communications Division, will ensure that the Inspector General is informed of any citywide information security issues, trends and developments.

- C. MOIS and the Department of Public Property, Communications Division, will provide technical support to the Inspector General during investigations, collect data to identify IT vulnerabilities, and develop and disseminate policies and procedures to correct security deficiencies.

SECTION 5
EFFECTIVE DATE

This Order shall become effective immediately.

October 6, 1997
Date

Edward G Rendell
Edward G. Rendell, Mayor