



IN2061 Einführung in die Digitale Signalverarbeitung

Key to Exercise 4

PROBLEM ONE

(a)

$$\frac{-4j\omega}{(1+\omega^2)^2}$$

(b)

$$-2\pi j\omega e^{-|\omega|}$$

PROBLEM TWO

$$2te^{-t}u(t)$$

PROBLEM THREE

(a) FALSE.

(b) TRUE