# Solution Manual for Signals and Systems, 3rd Edition

# Chapter 2 - Mathematical Description of Continuous-Time Signals

#### Solutions

#### Exercises With Answers in Text

#### Signal Functions

- 1. If  $g(x) = 7e^{-2x-3}$  write out and simplify
  - (a)  $g(3) = 7e^{-x} = 8.6387 \times 10^{-x}$
  - (b)  $g(2-r) = 7e^{-3(2-r)-1} = 7e^{-3+2r}$
  - (c)  $g(t/10+4) = 7e^{-(t-1)}$
  - (d)  $g(jr) = 7e^{-j(2r-1)}$
  - (e)  $\frac{g(\mu) + g(-\mu)}{2} = 7e^{-3}\frac{e^{-\lambda tr} + e^{-\lambda tr}}{2} = 7e^{-3}\cos(2t) = 0.3485\cos(2t)$

(f) 
$$\frac{g(\frac{jt-3}{2}) + g(\frac{-jt-3}{2})}{2} = 7\frac{e^{-s} + e^{s}}{2} = 7\cos(t)$$

- 2. If  $g(x) = x^2 4x + 4$  write out and simplify
  - (a)  $g(z) = z^2 4z + 4$
  - (b)  $g(u+v)=(u+v)^2-4(u+v)+4=u^2+v^2+2uv-4u-4v+4$
  - (c)  $g(e^{x}) = (e^{x})^{2} 4e^{x} + 4 = e^{x^{2}} 4e^{x} + 4 = (e^{x} 2)^{2}$
  - (d)  $g(g(t)) = g(t^2 4t + 4) = (t^2 4t + 4)^2 4(t^2 4t + 4) + 4$ 
    - $g(g(r)) = r^4 8r^3 + 20r^2 16r + 4$
  - (c) g(2) = 4 8 + 4 = 0

# **Solution Manual To Signals Systems**

**E Durkheim** 

**Solution Manual To Signals Systems:** 

The Enigmatic Realm of **Solution Manual To Signals Systems**: Unleashing the Language is Inner Magic

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