

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 $g(t) = 7e^{-(2t-3)}$ write out and simplify

(a) $g(3) = 7e^{-6} = 8.6387 \times 10^{-4}$

(b) $g(2-t) = 7e^{-(2(2-t)-3)} = 7e^{-2+2t}$

(c) $g(t/10+4) = 7e^{-(t/5+16)}$

(d) $g(jt) = 7e^{-(2jt-3)}$

(e) $\frac{g(jt) + g(-jt)}{2} = 7e^{-3} \frac{e^{j2t} + e^{-j2t}}{2} = 7e^{-3} \cos(2t) = 0.3485 \cos(2t)$

(f) $\frac{g\left(\frac{j(t-3)}{2}\right) + g\left(\frac{-j(t-3)}{2}\right)}{2} = 7 \frac{e^{j(t-3)} + e^{-j(t-3)}}{2} = 7 \cos(t)$

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) $g(e^t) = (e^t)^2 - 4e^t + 4 = e^{2t} - 4e^t + 4 = (e^t - 2)^2$

(d) $g(g(t)) = g(t^2 - 4t + 4) = (t^2 - 4t + 4)^2 - 4(t^2 - 4t + 4) + 4$

$$g(g(t)) = t^4 - 8t^3 + 20t^2 - 16t + 4$$

(e) $g(2) = 4 - 8 + 4 = 0$

Manual Solution Of Signals And Systems

Daniela Niemeyer



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