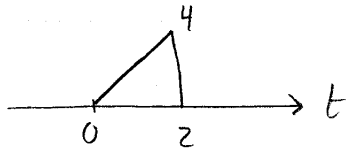
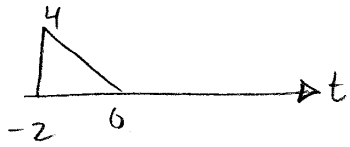
① Text, 2.5a

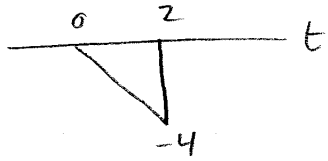
$g(t)$



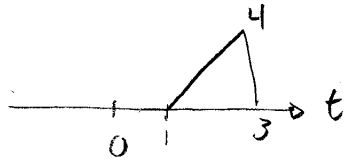
$g(-t)$



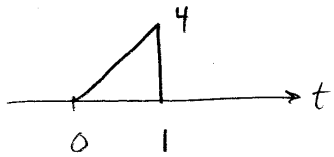
$-g(t)$



$g(t-1)$



$g(2t)$



② Text 2-29

(a) $g(.001) = 100\sin(200\pi(.001) + \pi/4) =$

$\boxed{98.7688}$

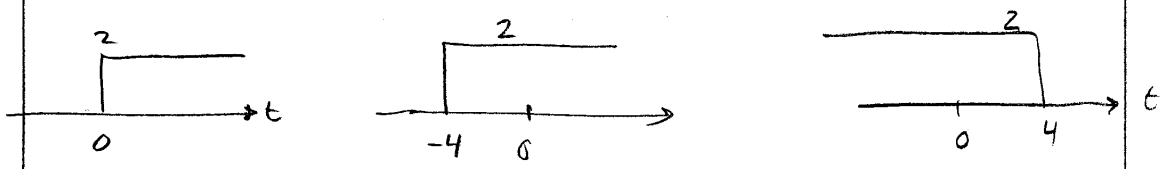
(b) $g(2) = 13 - 4(2) + 6(2^2) = \boxed{29}$

(c) $g(1/4) = -5e^{-2(.25)}e^{-j2\pi(.25)} = 3.0327j$

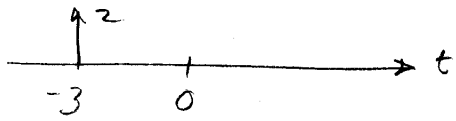
③ Text, 2-33a

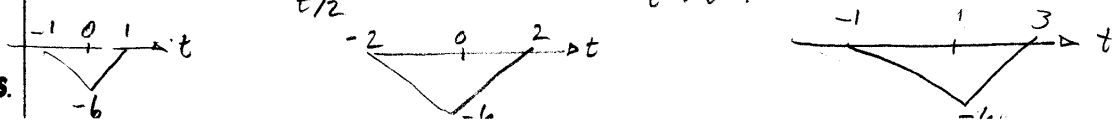
(a) $g(t) = 2u(4-t) = 2u(-t+4)$

$$2u(t) \xrightarrow[t \to t-4]{} u(t+4) \xrightarrow[t \to -t]{} u(-t+4)$$



(g) $g(t) = 2\delta(t+3)$



(p) $g(t) = -6\,\mathrm{tri}\left(\frac{t-1}{2}\right)$

$$-6\,\mathrm{tri}(t) \xrightarrow[t/2]{} -6\,\mathrm{tri}(t/2) \xrightarrow[t \to t-1]{} -6\,\mathrm{tri}\left(\frac{t-1}{2}\right)$$