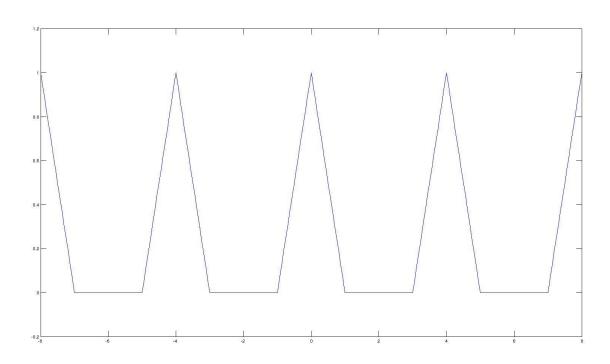
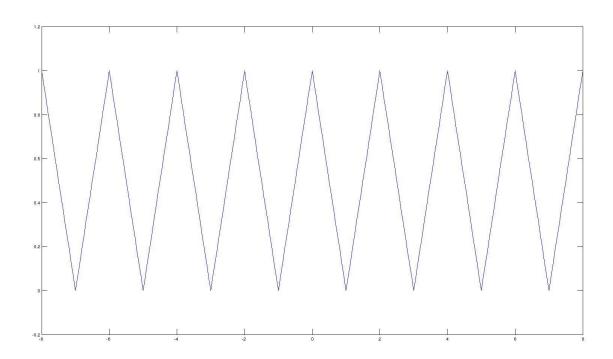
EE 361002 Signal and System HW3 Answer

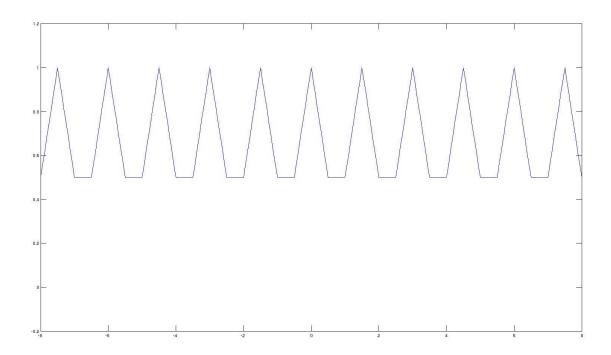
(a) T = 4



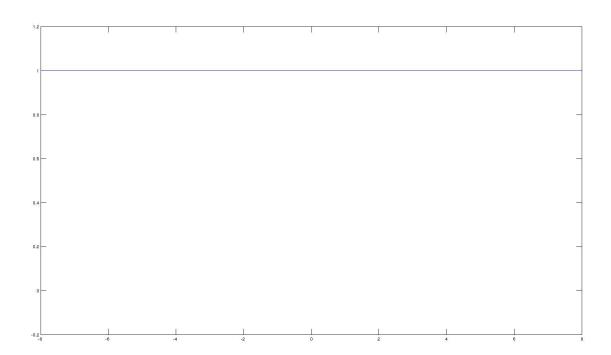
(b) T = 2

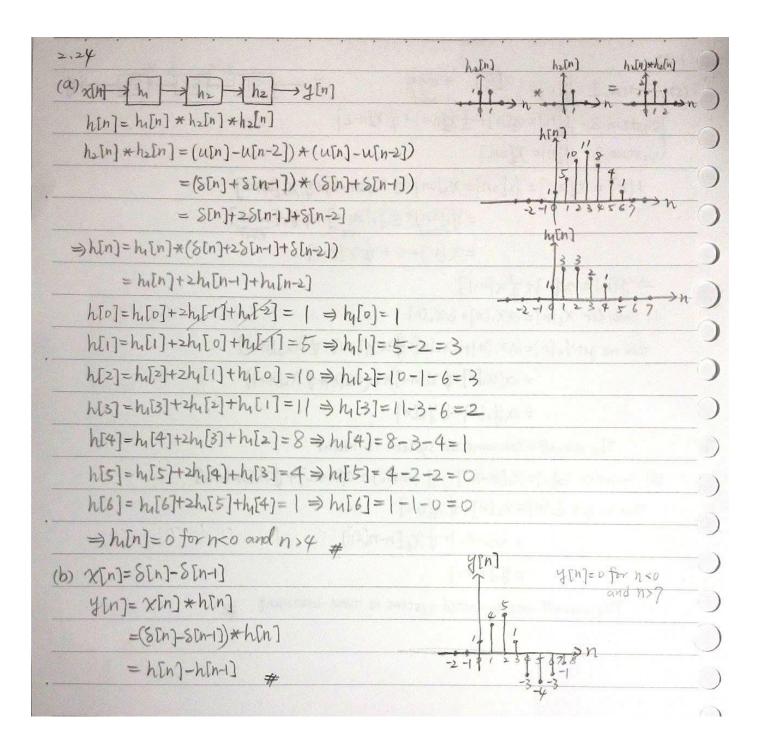


(c) T = 3/2



(d) T = 1





$$= A(\frac{1}{2})^n - \frac{1}{2}A(\frac{1}{2})^{n-1}$$

$$= A(\frac{1}{2})^n - A(\frac{1}{2})^n$$

=)
$$B(\frac{1}{3})^{n} - \frac{1}{2}B \cdot (\frac{1}{3})^{n-1} = (\frac{1}{3})^{n}$$

$$=$$
 $\beta - \frac{3}{2} \cdot \beta = 1$

for
$$\chi(n) = (\frac{1}{3})^n u(n)$$