Q1)



Q2)

 a)Is the following signal periodic , if periodic find its fundamental period

$x\left(t\right)=4Cos^{2}\left(\frac{π}{3}t\right)-8Sin\left(\frac{2π}{9}t\right)+Sin(\frac{π}{6}t)$

b)Find the total power and energy of the following signal

 $x\left(n\right)=\frac{2+3j}{e^{\sqrt{2}πjn}}$

Q3)Find and draw the following signals

 a)x(t)=5rect(2- t/4)

 b)x(t)=4tri(6- 5t)

c) for the signal below find and draw the following signals

i)$y\left(n\right)=\frac{1}{2}x\left(n\right)+\frac{1}{2}(-1)^{n}x(n)$

ii)y(n)=x(n)u(3-n)

