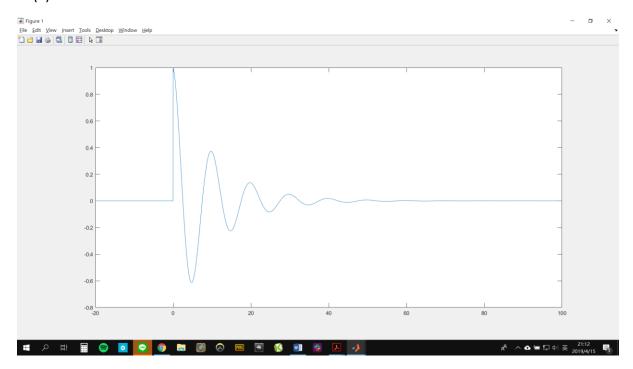
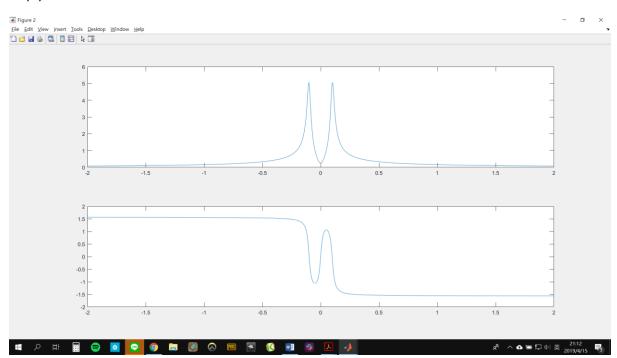
```
HWZ 1060615/ 3/4/9
     Xity= 5-15-1 xitle rafe dt ethraft
      XIII)= Sto XITTE DEATH dt
    XI(t)= 5th XI(1)etireft dt
   X_{1}[L] = \int_{-\frac{1}{2}}^{\frac{1}{2}} \sum_{n=-\infty}^{\infty} X_{n}[L] e^{-\frac{1}{2}\pi dn} e^{+\frac{1}{2}\pi dn} dn
X_{1}[L] = \int_{-\frac{1}{2}}^{\frac{1}{2}} X_{1}[L] e^{-\frac{1}{2}\pi dn} e^{+\frac{1}{2}\pi dn} dn
X_{1}[L] = \int_{-\frac{1}{2}}^{\frac{1}{2}} X_{1}[L] e^{+\frac{1}{2}\pi dn} e^{+\frac{1}{2}\pi dn} dn
    Xo(t)= x(t) x I s(t-4Ts)
     x[h] = x(hTs)
            χ<sub>o</sub>(t) = χ(t) × Ε (t + π) = χ(τ) × τ'ς Γ (xe) τ'ς t
              X_s(f) = X(f) * fs = 5 ff-lds)
                                                                                                                                                 Xo(+)= X(+) * fs == 0(+ 1/5)
2, it-
Xs(t)=5th Xs(t)e halt dt
                    =\int_{-\infty}^{+\infty} \chi(e) \stackrel{!}{=} \delta(t n t) e^{-i 2\pi t t} dt
=\int_{-\infty}^{+\infty} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
=\int_{-\infty}^{+\infty} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
=\int_{-\infty}^{+\infty} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
=\frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
=\frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
=\frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
=\frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} e^{-i 2\pi t t} \frac{1}{x(n t s)} dt
                     = = = x [n] e 12n = n
                        = 8(1)
  CTFT of Impulse sampling = DTFT of point sampling
```

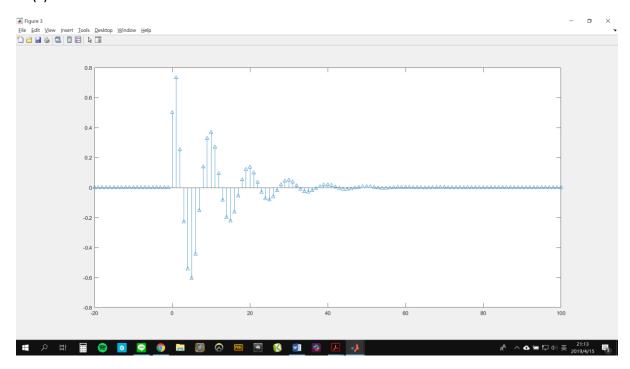
2. (a)



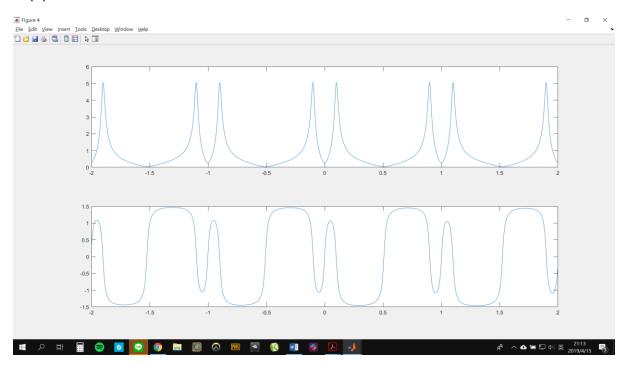
2. (b)



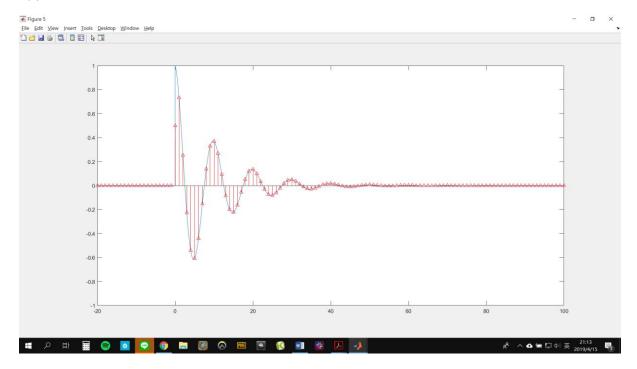
2. (c)



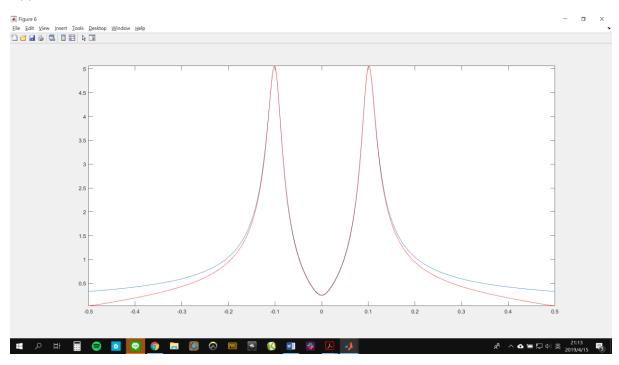
2. (d)



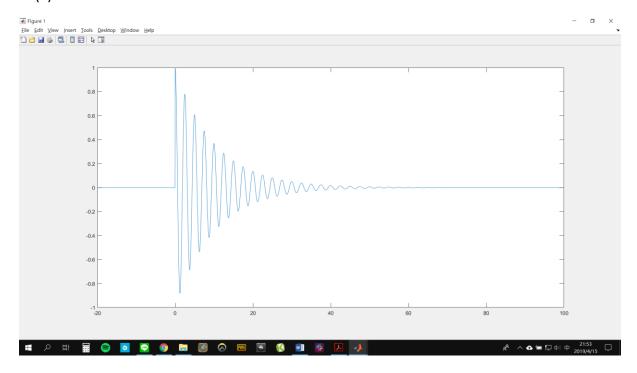
x(t)



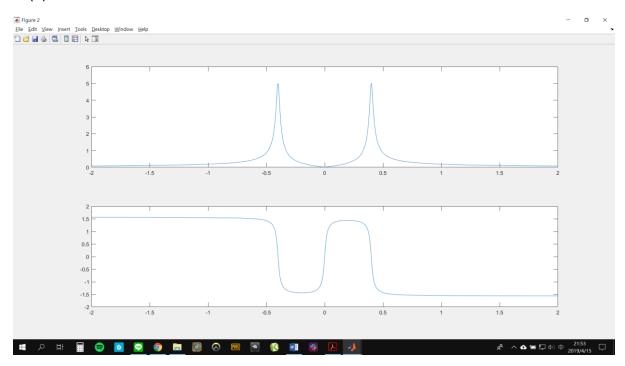
X(f)

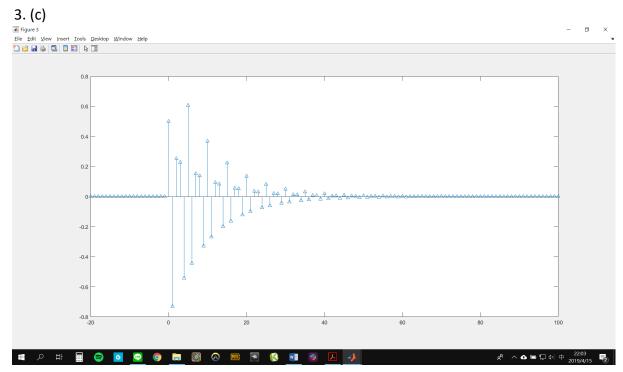


3. (a)

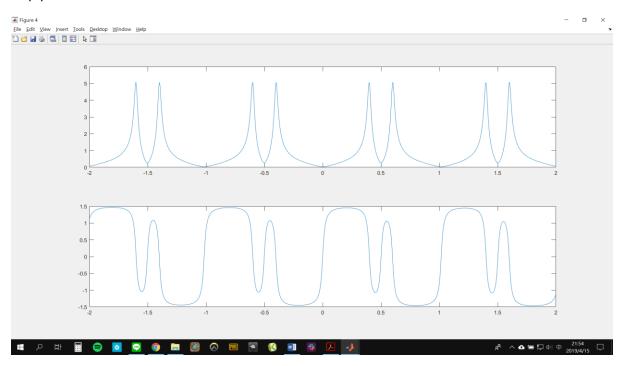


3. (b)

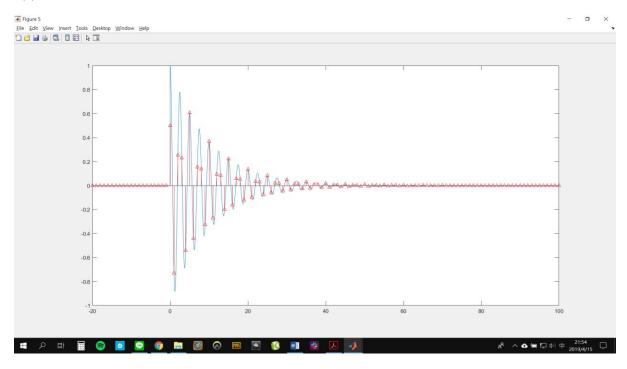




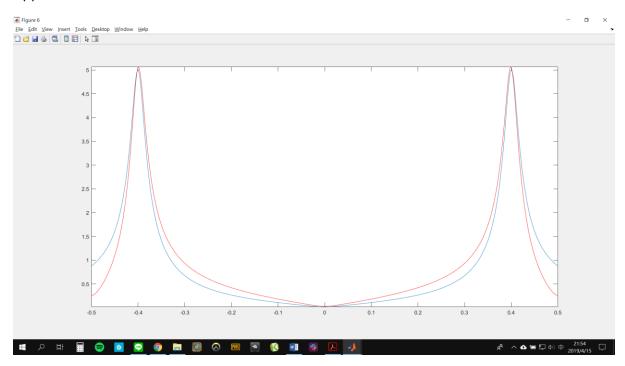
3. (d)



x(t)



X(f)



4.

2 跟 3 的差別在於 sample frequency,2 為 0.1,3 為 0.4,因為 3 的 sample frequency 較大,所以 sample 後的機率比較不接近原圖