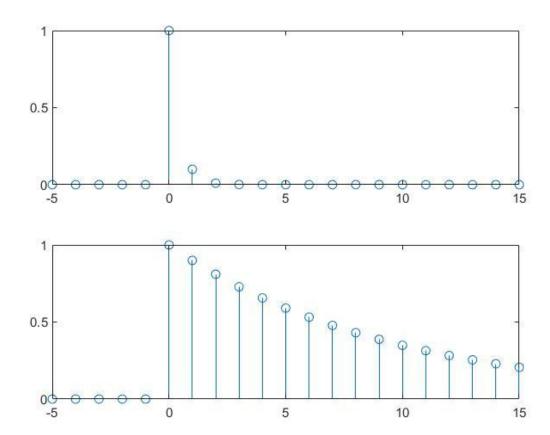
$$\frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{4} \frac{1}{3} \frac{1} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3$$

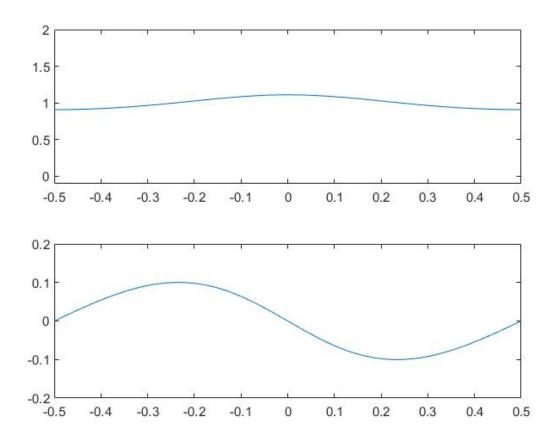
2. h[n]

上為 a = 0.1

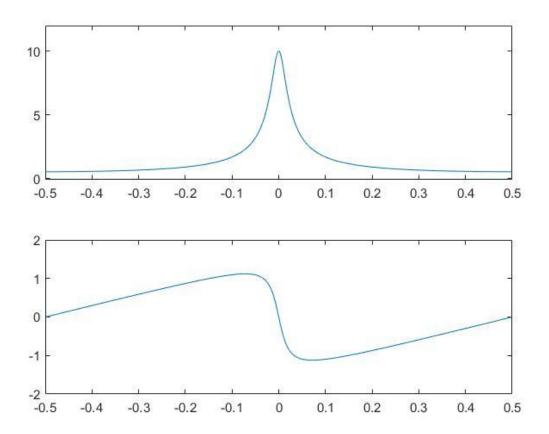
下為 a = 0.9



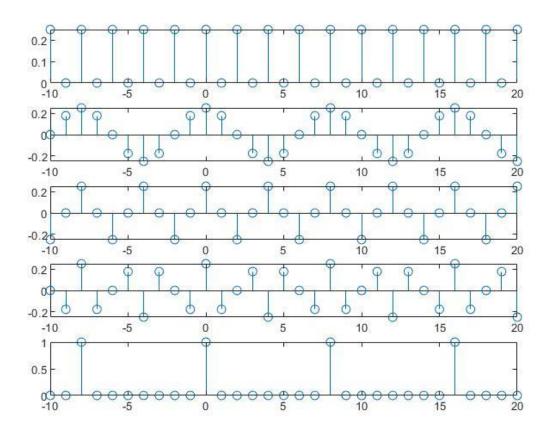
3. H(f), a = 0.1 上為|H(f)| 下為 phase(H(f))



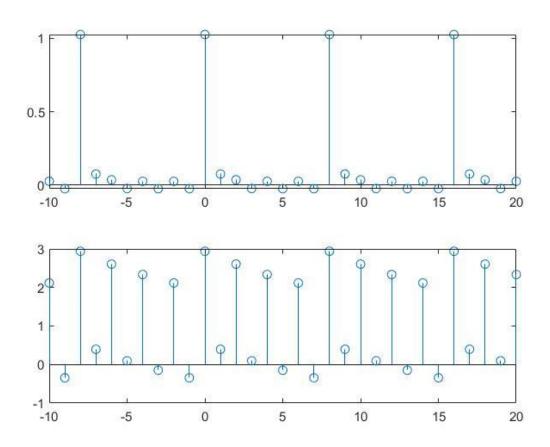
H(f) a = 0.9 上為|H(f)| 下為 phase(H(f))



4. x(t),最下面為 x(t),上面依序為 x1(t), x2(t), x3(t), x4(t)



y[n] 上為 a = 0.1 下為 a = 0.9



5. 由 2.可知當 a = 0.1 時 h[n]最像 delta function。而看 4.的 y(t)圖也可發現,當 a=0.1 時最接近 x(t)。由以上可得,a 越小,失真越小,a 越大,失真越大。