c) 
$$x[n] = (-\frac{1}{2})^n u[n-4]$$
  
 $u[n] = 4^n u[2-n]$   
 $u[n] = \frac{8}{3} (-\frac{1}{3})^k \int_{-1}^{4} u[n-4] d^{n-k} \int_{-1}^{2} u[n+1] = 4^n \int_{-1}^{\infty} \int_{-1}^{4} u[n+1] d^{n-k} \int_{-1}^{2} u[n+1] = 4^n \int_{-1}^{\infty} \int_{-1}^{4} u[n+1] d^{n-k} \int_{-1}^{2} u[n+1] = 4^n \int_{-1}^{\infty} \int_{-1}^{4} u[n+1] d^{n-k} \int_{-1}^{2} u[n+1] d^{n-k} d^{n-k} \int_{-1}^{2} u[n+1] d^{n-k} d^{n-k} \int_{-1}^{2} u[n+1] d^{n-k} d^{n-k} \int_{-1}^{2} u[n+1] d^{n-k} d^{$ 

$$= \frac{1}{4^{n}} \sum_{k=0}^{\infty} \frac{\left(-\frac{1}{8}\right)^{k}}{1 - \left(-\frac{1}{8}\right)^{k}} = \frac{1}{4^{n}} \cdot \left(\frac{\sum_{k=0}^{\infty} \left(-\frac{1}{8}\right)^{k}}{1 - \left(-\frac{1}{8}\right)^{k}}\right) = \frac{1}{4^{n}} \cdot \left(\frac{\sum_{k=0}^{\infty} \left(-\frac{1}{8}\right)^{k}}{1 + \frac{1}{8}}\right) = \frac{1}{4^{n}} \cdot \left(\frac{\sum_{k=0}^{\infty} \left(-\frac{1}{8}\right)^{k}}{1 - \left(1 - \left(-\frac{1}{8}\right)^{n} \operatorname{max}(l_{1}, n-2)\right)\right) = \frac{1}{4^{n}} \cdot \left(\frac{1}{8}\right)^{n} \cdot \left(\frac{1}{8}\right)$$



