2) 
$$\mu(s) = \frac{1}{m} \sum_{x \in S} xi$$
 pi =  $1/m$ 

$$\hat{E}\left[\|\mu(s)\|^{2}\right]: \frac{1}{m^{2}} \sum_{i=1}^{m} \frac{\sum_{j=1}^{m} \|x_{ij}\|^{2}_{i}}{m^{2}} \cdot \frac{1}{m^{2}} \cdot \frac{\sum_{j=1}^{m} \|x_{ij}\|^{2}_{i}}{m^{2}} \cdot \frac{1}{m} \cdot \frac{\sum_{j=1}^{m} \|x_{ij}\|^{2}_{i}}{m} \cdot \frac{1}{m} \cdot \frac{1}{m}$$

3) 
$$\hat{E}_{p} : \frac{m}{m} \sum_{x \in S} ||x|||_{L^{\infty}}^{1} : \frac{m}{m} \sum_{s \in S} ||s| : ||x|||_{L^{\infty}}^{1} : \frac{m}{m} > 1$$

5) 
$$\hat{E}_{p} = \frac{1}{m} \sum_{x \in S} ||x|||_{L^{2}}^{2} + \frac{1}{2} \sum_{x \in S} ||x|||_{L^{2}}^{2}$$
Cont

$$\hat{t}_p = \frac{1}{m} \cdot \sum_{i=1}^{m} ||x_i||_i^i \cdot \frac{\text{cost}}{||x_i||_i^i} = \frac{1}{m} \cdot \frac{m}{||x_i||_i^i} \cdot \frac{\text{cost}}{||x_i||_i^i} = \frac{1}{m} \cdot \frac{m}{||x_i||_i^i}$$

4) 
$$\mu(6) = \sum_{x \in S} \frac{2}{p_i} x_i = \sum_{x \in S} \frac{\frac{\text{cont}}{\|x_i\|_{L^2}}}{\sum_{x \in S} \frac{1}{\|x_i\|_{L^2}}} x_i = \sum_{x \in S} \frac{\frac{1}{\|x_i\|_{L^2}}}{\sum_{x \in S} \frac{1}{\|x_i\|_{L^2}}} x_i$$

Uning the DI Sampling, being c (P)=0 of there is one point for off from the origin and many points close to it, the sample with high probability is therefore compared only by the point for from the origin.