

Name _____

Sr.# _____

1) $\lim_{n \rightarrow \infty} \sum_{i=1}^n \frac{i^4}{n^5} =$

a) $\int_1^2 x^5 dx$ b) $\int_1^2 \frac{1}{x^4} dx$ c) $\int_0^1 x^4 dx$

2) Evaluate $\int_{-2}^0 (2 + \sqrt{2 - x^2}) dx$

3) Evaluate $\lim_{x \rightarrow \infty} \frac{3}{n} \sum_{i=1}^n \left[\left(\frac{3i}{n} \right)^3 - 6 \frac{3i}{n} \right]$

