KFUPM MATH102 Quiz#1 Sec. 27

Name Sr.#

1) $\lim_{n\to\infty} \sum_{i=1}^{n} \frac{1}{n} cos\left(1+\frac{i}{n}\right)^2 =$

a) $\int_1^2 cos(x^2)dx$ b) $\int_1^2 cos(1+x^2)dx$ c) $\int_0^1 cos(x^2)dx$

2) Evaluate $\int_0^3 \left(1+\sqrt{9-x^2}\right)dx$

3) Evaluate $\lim_{x\to\infty} \sum_{i=1}^{n} \left(\frac{2i^2}{n^3} - \frac{1}{n}\right)$