

Name:
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KFUPM-MATH102
Quiz#2

Q1) Evaluate $\int_0^1 \sqrt{1-x^2} dx$ (Hint: what is shape of this function?)

Q2) Find $\int \sqrt{1+x^2} x^5 dx$

Q2) The region bounded between $y = x^3 + 1$ and $y = x$ over $[0,1]$ is revolved about the x-axis. Find the volume.