

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

MTH101A

QUIZ-2, 23-11-2020, 4:30-4:40

- (3) Let S be the solid obtained by revolving the region bounded by the curves $f_1(x) = x^2 - 4$ and $f_2(x) = 4 - x^2$ about the line $x = 2$. Using the shell method determine the volume of the solid S . [5]