33 Lecture - MTH101

Important Mcqs

A cylindrical tank is filled with water to a height of 10 meters. The radius of the tank is 5 meters. What is the approximate volume of the water in the tank?
a. 785.4 m^3
b. 1570.8 m ³
c. 1963.5 m^3
d. 3141.6 m^3
Answer: b. 1570.8 m ³
What is the average value of the function $f(x) = 3x^2 + 2x + 1$ on the interval [0,1]?
a. 2
b. 3
c. 4
d. 5
Answer: c. 4
The region bounded by $y = x^2$ and $y = x$ is rotated around the y-axis. What is the volume of the resulting solid?
a. 1/6?
b. 1/4?
c. 1/2?
d. 3/4?

Answer: b. 1/4?



