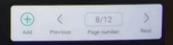


3 550 656 When the region of integration is bounded by plane () Evaluate (() dxdydz over the volume of the tetrahedron x=0, y=0, z=0, x+y+z=1

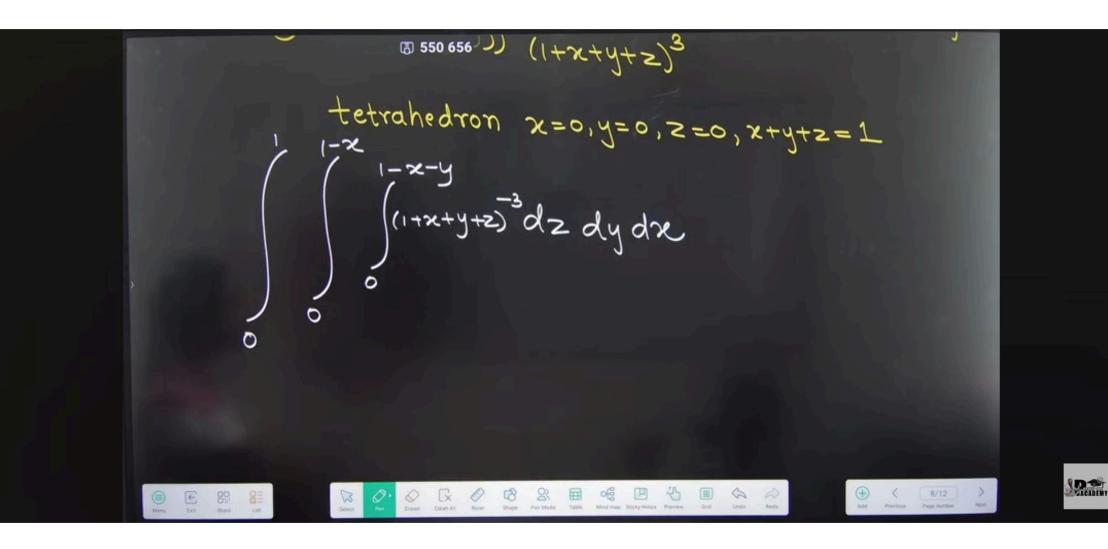


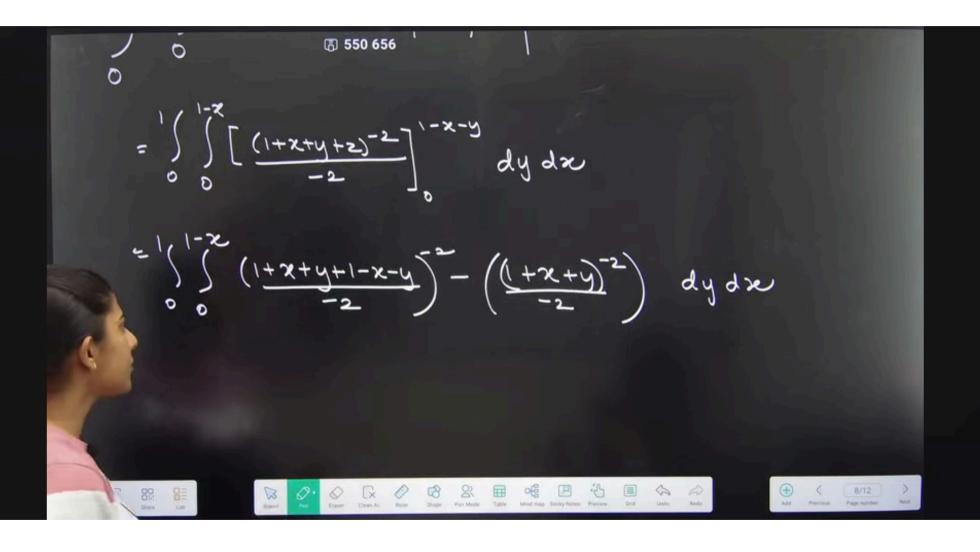




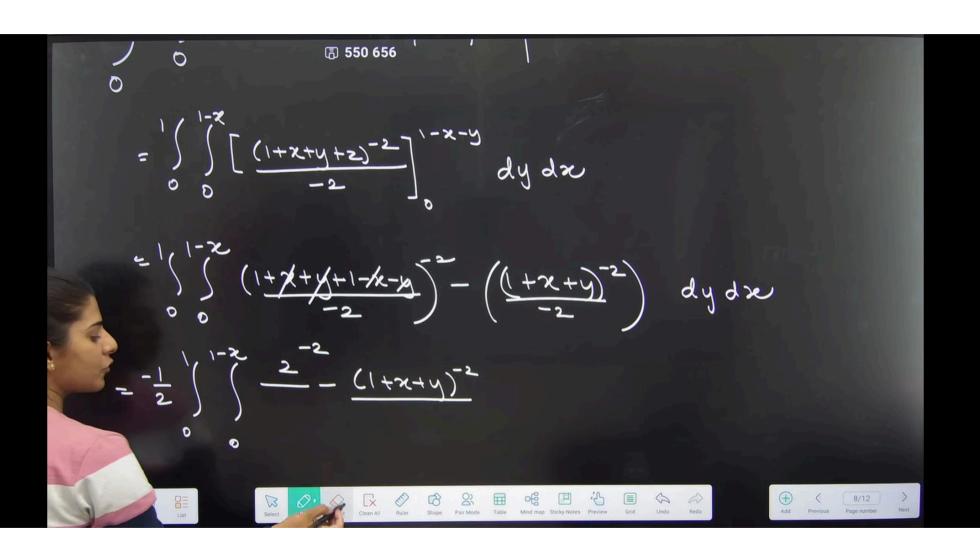


To find limits we need to change order to dzdydx

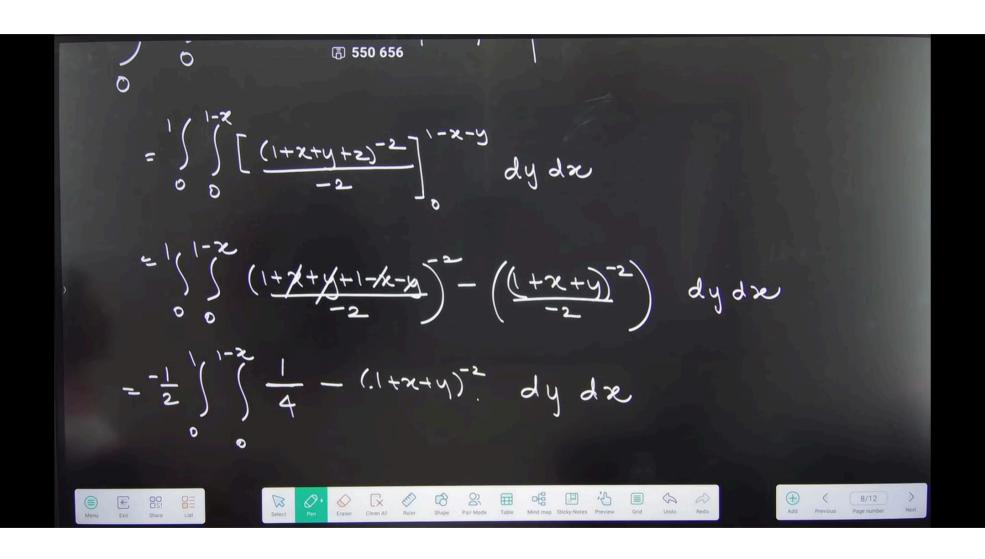




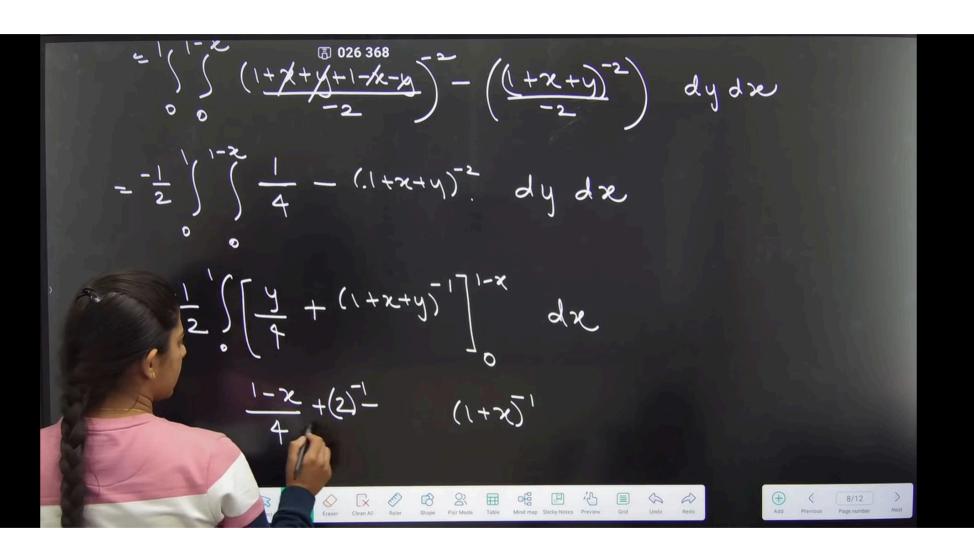




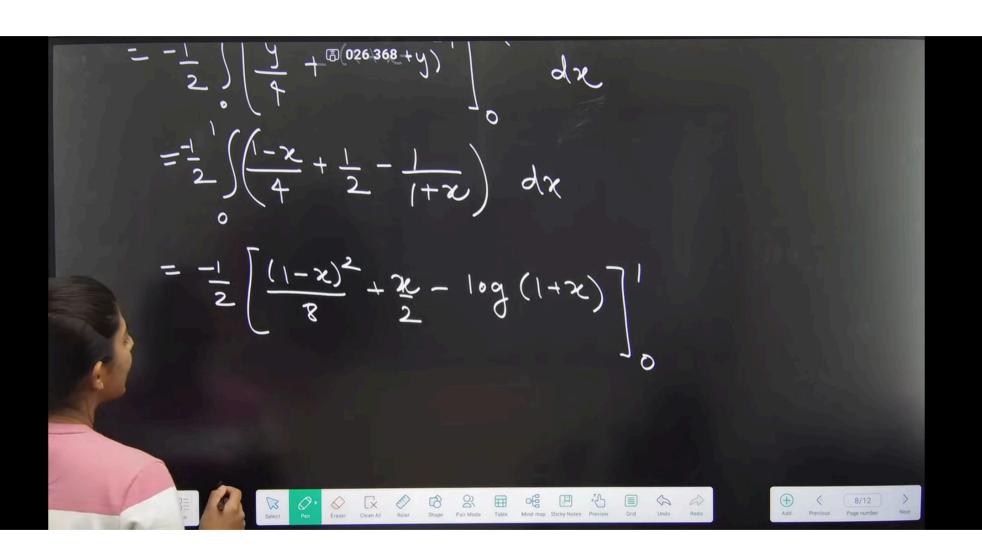




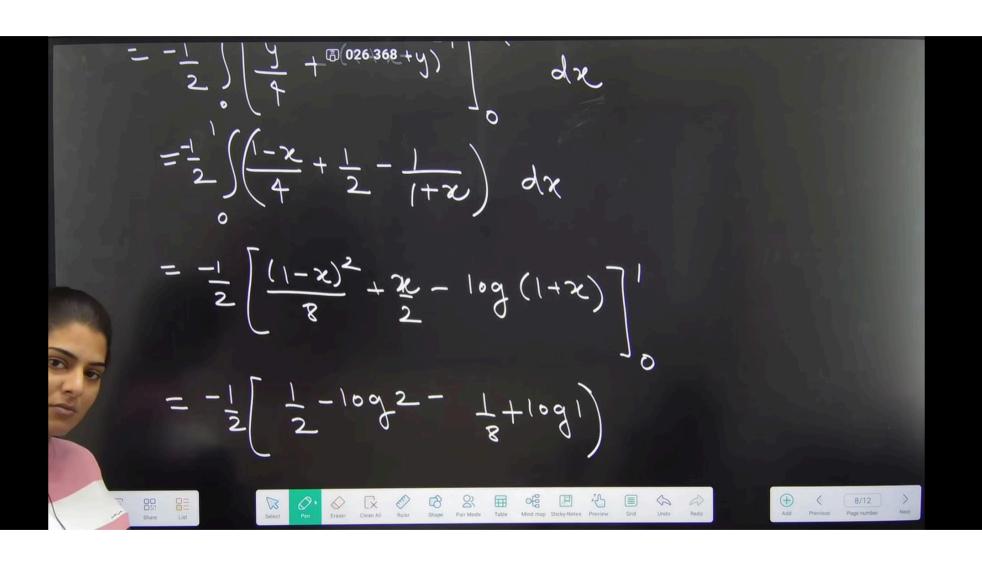




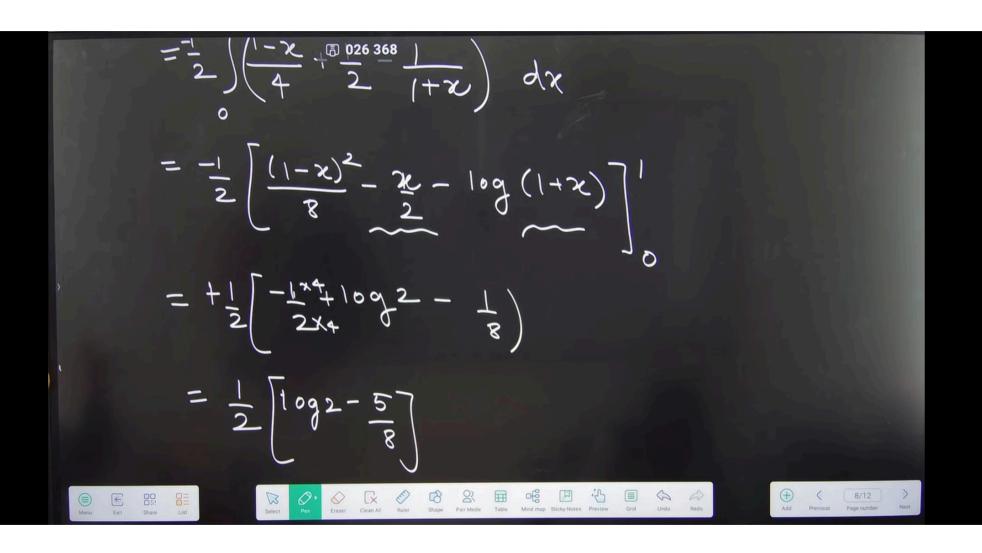






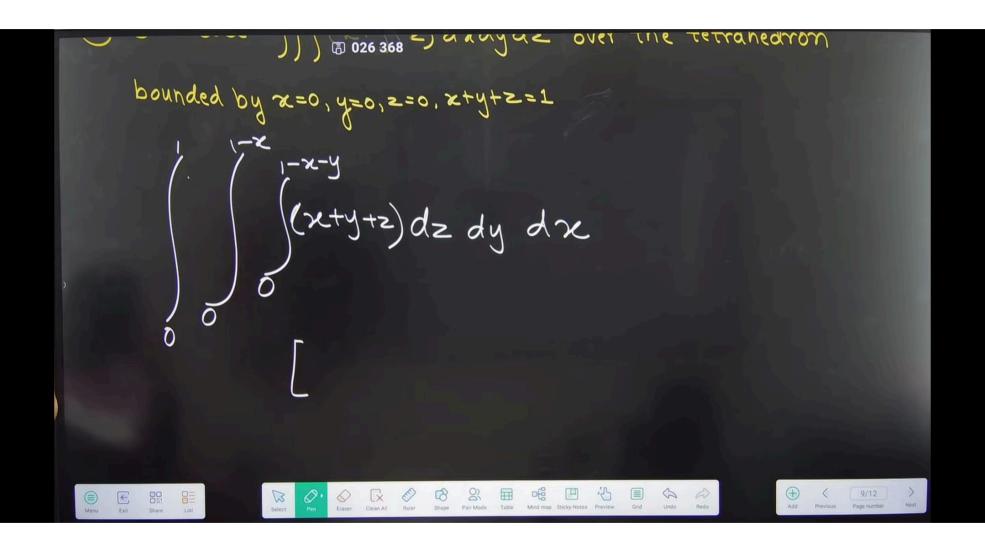


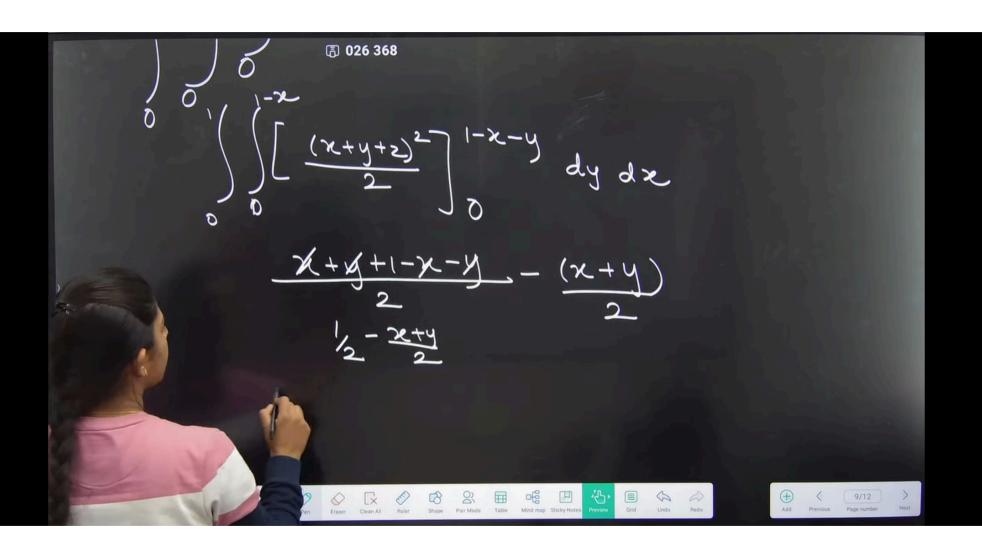




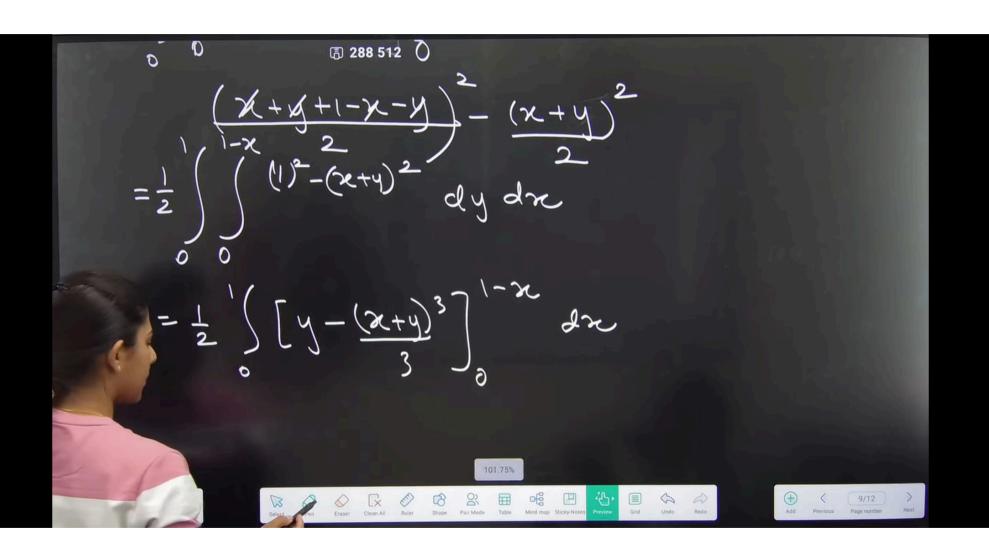


高 026 368 2 Evaluate \frac{1}{(x+y+z)} dxdydz over the tetrahedron bounded by x=0, y=0, z=0, x+y+z=1

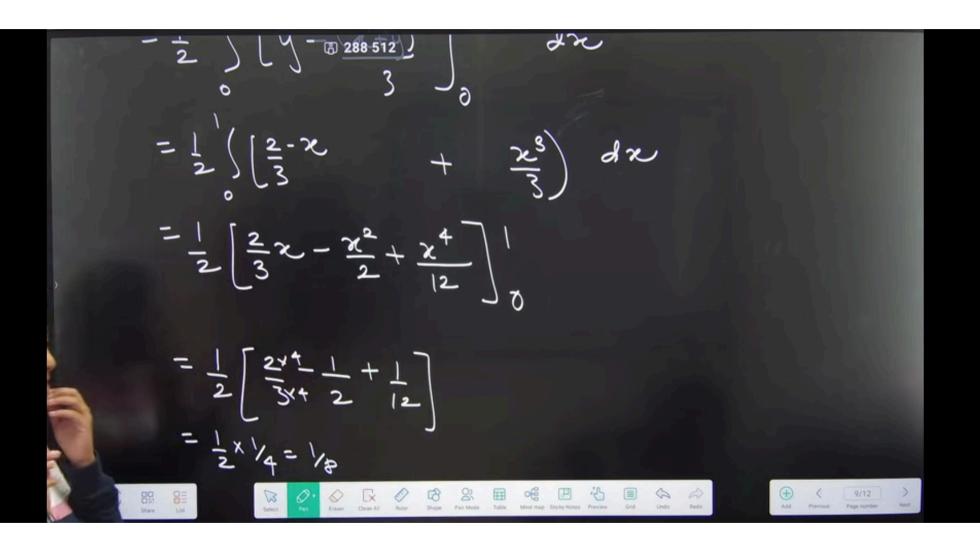




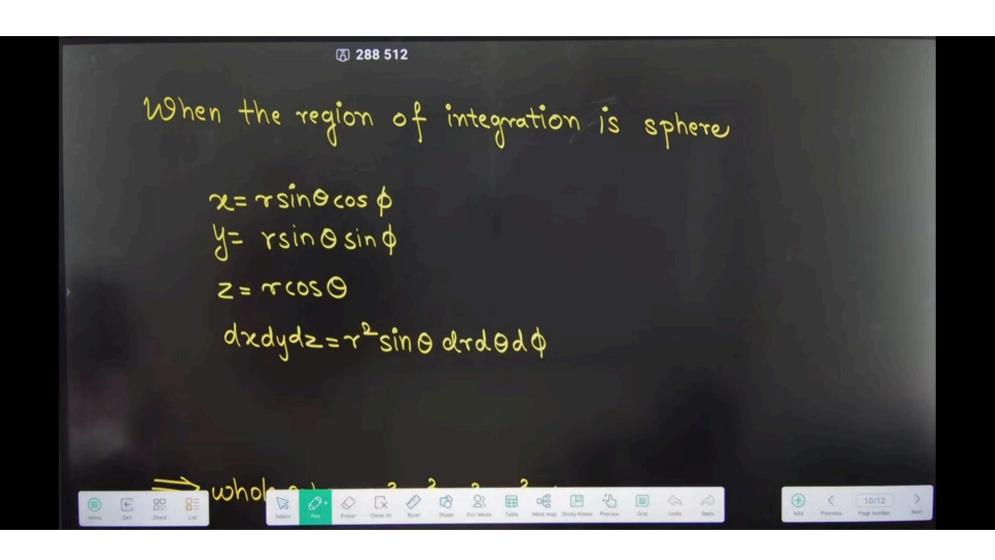


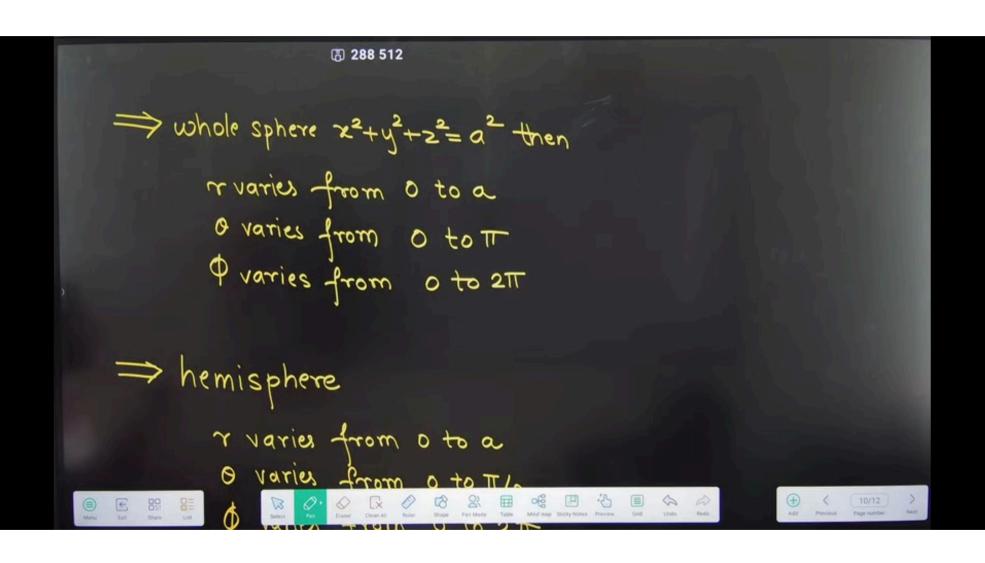


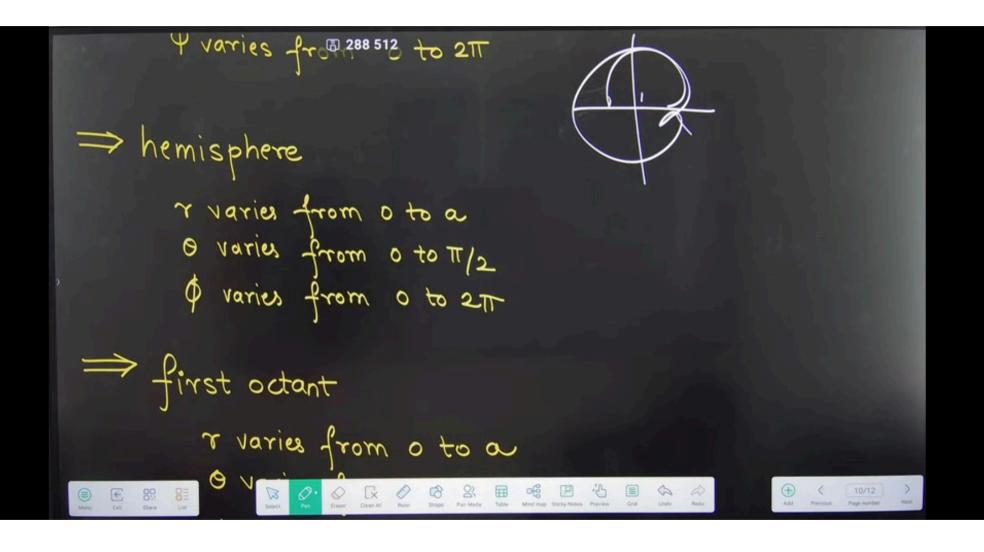
ACADEMY

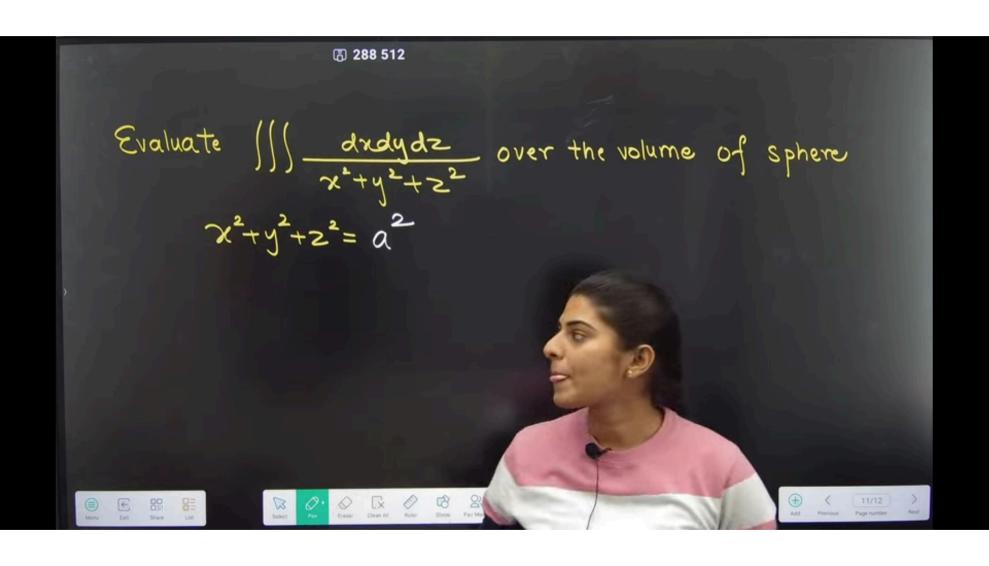




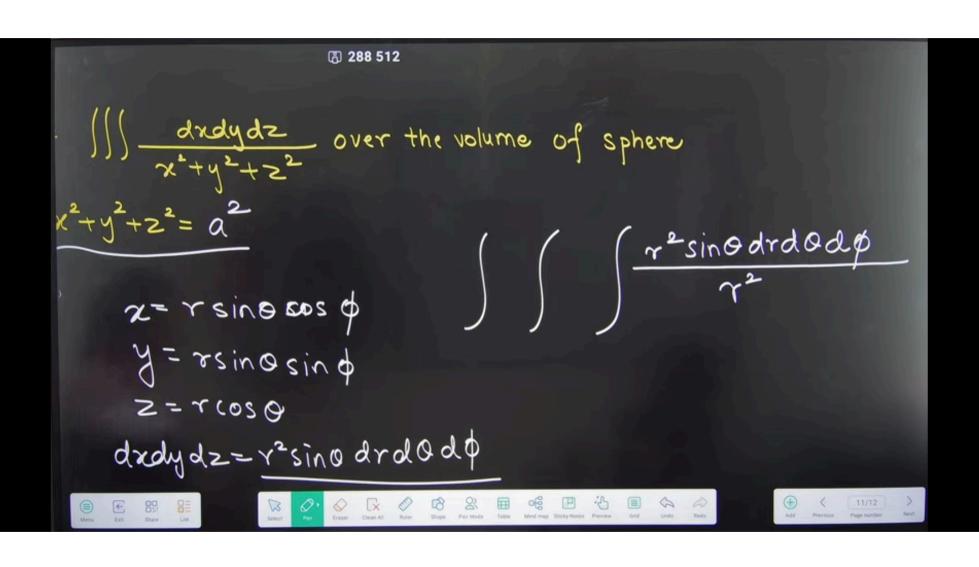


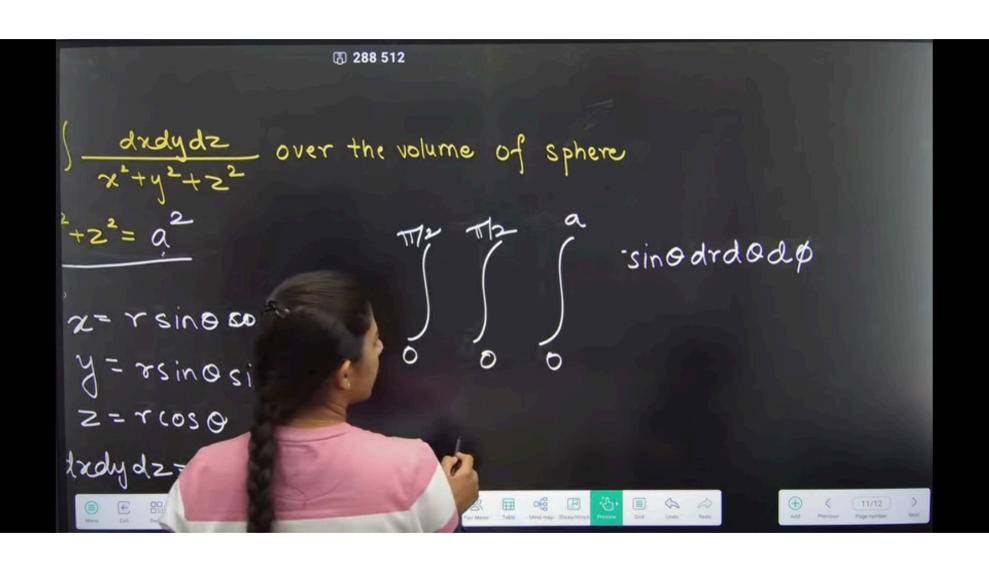




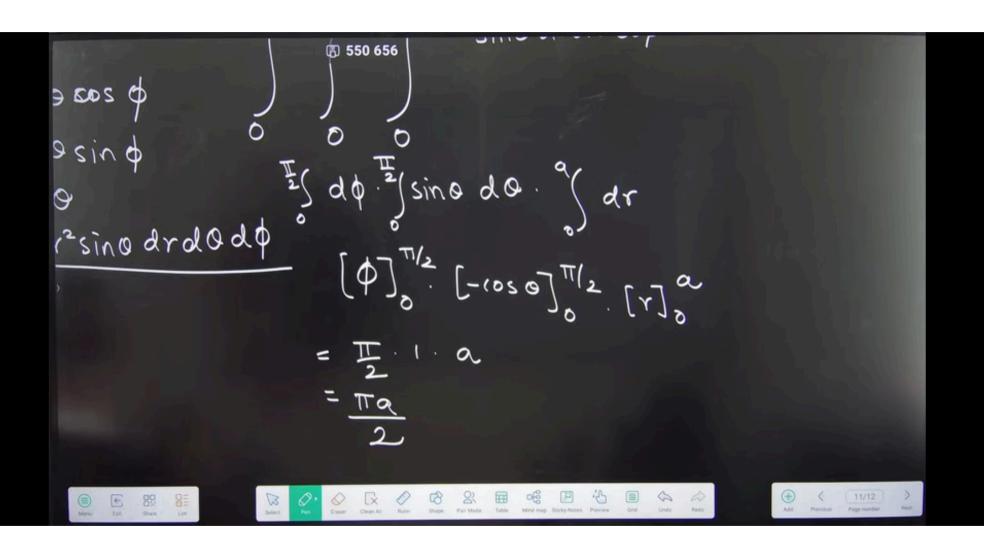












ACADEMY

1) Sphere
r from 0 to a
9 from 0 to TT
\$ from 0 to 2TT
3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/
2) Hemisphere
r from 0 to a
9 from 0 to T/2
d from 0 to 2TT
The state of the s
3) first octant
r from 0 to a
T/
Π /
1 Prom 0 to 1/2