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	DATE:
05/07/21	Ergineering Mathematics
	Tutorial 3: Triple Integration
	Salutions - Encitudas
	1 2 X+2
1.>	Evaluate \ \ \(\left(\times \text{tytz} \right) dy dx dz \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	-1 0 x-2
2)	- 1 1 (("To 7) 1 1 1 7 Himmal and the value bounded
21	Evaluate III x 2 2 dx dy dz throughout the volume bounded
11	by the planes x=0, y=0, z=0, x + 4 + z = 1
0	у по в с
	26 (x6 [35-x) - (25.2
3>	Use spherical coordinates to evaluate \[\left(\pi^2 + y^2 + z^2 \right)^{3/2}
	V
	where V is the volume bounded by the spheres x2+y2+z2=a2
	and x2+y2+22=b2, (b7a)
4>	Evaluate III z2 dxdydz over the volume bounded by
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4>	the cylinder x2+y2=a2 and the paraboloid x2+y2=z and
4>	the cylinder x2+y2=a2 and the paraboloid x2+y2=z and the plane z=0.
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