

October 31

How is finding the volume  
by slicing different from  
using the disk method?  
How is it similar?



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Students will verbally explain how to  
find the volume using the disk method  
(using the words:  
axis of rotation, outside radius, inside radius...)



slice #	interval	x-value	x^2		ln[3x]		Depend on Shape				Area	Width	Volume		
			y1-value	y2-value	diameter	radius									
1	1 to 1.25	1	1	1.098612	-0.09861	-0.04931					0.003819	0.25	0.000955		
2	1.25 to 1.5	1.25	1.5625	1.321756	0.240744	0.120372					0.02276	0.25	0.00569		
3		1.5	2.25	1.504077	0.745923	0.372961					0.218498	0.25	0.054624		
4		1.75	3.0625	1.658228	1.404272	0.702136					0.774394	0.25	0.193598		
5		2	4	1.791759	2.208241	1.10412					1.914927	0.25	0.478732		
6		2.25	5.0625	1.909543	3.152957	1.576479					3.903874	0.25	0.975968		
7		2.5	6.25	2.014903	4.235097	2.117548					7.043463	0.25	1.760866	811.6812	
8		2.75	7.5625	2.110213	5.452287	2.726143					11.67393	0.25	2.918481		
9		3	9	2.197225	6.802775	3.401388					18.17322	0.25	4.543304		
10		3.25	10.5625	2.277267	8.285233	4.142616					26.95684	0.25	6.739209		
11		3.5	12.25	2.351375	9.898625	4.949312					38.47771	0.25	9.619428		
12		3.75	14.0625	2.420368	11.64213	5.821066					53.22609	0.25	13.30652		
13		4	16	2.484907	13.51509	6.757547					71.72947	0.25	17.93237		
14		4.25	18.0625	2.545531	15.51697	7.758484					94.55256	0.25	23.63814		
15		4.5	20.25	2.60269	17.64731	8.823655					122.2972	0.25	30.5743		
16		4.75	22.5625	2.656757	19.90574	9.952872					155.6024	0.25	38.9006		
17		5	25	2.70805	22.29195	11.14597					195.1442	0.25	48.78605		
18		5.25	27.5625	2.75684	24.80566	12.40283					241.6357	0.25	60.40892		
19		5.5	30.25	2.80336	27.44664	13.72332					295.827	0.25	73.95676		
20		5.75	33.0625	2.847812	30.21469	15.10734					358.5054	0.25	89.62636		
21		6	36	2.890372	33.10963	16.55481					430.495	0.25	107.6238		
22		6.25	39.0625	2.931194	36.13131	18.06565					512.6569	0.25	128.1642		
23		6.5	42.25	2.970414	39.27959	19.63979					605.8893	0.25	151.4723		