

Table 1: Data for the 2-D region

	y	y	area
1	$8.20*x+96.9$	$3.4*x^4+9.2*x^3-14.0*x^2-12.6*x+9.9$	581.1154115
2	$3.60*x+168.3$	$18.1*x^4-25.0*x+17.9$	415.2073749
3	$8.30*x+134.3$	$3.9*x^4+18.6*x^3+7.4*x^2-24.4*x+18.8$	624.6895744
4	$5.60*x+47.6$	$6.8*x^4-34.6*x^3+73.6*x^2-10.0*x+10.1$	41.85771418
5	$5.20*x+142.8$	$19.2*x^4-10.4*x^3+36.6*x^2+37.2*x+10.5$	263.8115203
6	$3.65*x+139.4$	$19.8*x^4+17.0*x^3+15.2*x+8.5$	361.4889647
7	$6.45*x+108.8$	$2.1*x^4+26.6*x^3-14.9*x+9.8$	33920.10939
8	$6.10*x+62.9$	$8.4*x^4-9.2*x^3-26.4*x+2.3$	222.8148180
9	$4.10*x+49.3$	$16.9*x^4-62.0*x^2+7.9$	281.3348211
10	$9.85*x+44.2$	$6.2*x^4-28.8*x^2-28.0*x+5.3$	296.0481882
11	$6.25*x+44.2$	$10.2*x^4+40.0*x^2+11.3$	38.06279031
12	$7.50*x+81.6$	$9.4*x^4+17.5*x^3+15.0$	208.5705300
13	$6.20*x+74.8$	$15.3*x^4+6.5*x^3-17.6*x^2+5.8$	207.3891450
14	$7.60*x+146.2$	$14.5*x^4+18.9*x^3+56.8*x^2+4.6$	267.6782900
15	$7.25*x+57.8$	$9.6*x^4-17.4*x^3+33.2*x^2+35.8*x+14.8$	61.27041713
16	$5.90*x+64.6$	$10.8*x^4+16.6*x^3-14.0*x^2+14.8$	193.8166319
17	$9.15*x+57.8$	$19.9*x^4-15.2*x^3+4.5*x+17.0$	86.15354325
19	$6.80*x+83.3$	$15.3*x^4-14.2*x^3-20.4*x^2+9.8*x+3.5$	272.8827340
19	$8.65*x+79.9$	$15.7*x^4-6.1*x^3-29.2*x^2+2.8*x+14.7$	237.8096519
20	$4.90*x+66.3$	$9.4*x^4+2.7*x^3+78.0*x^2+11.6$	59.71406918
21	$2.50*x+35.7$	$5.8*x^4+32.2*x^3+6.2$	1676.527924
22	$3.15*x+51.0$	$11.9*x^4-16.7*x+7.8$	101.3666025

Table 2: Data for the 3-D region

- Boundaries of three dimensional region: $z=(1.70)*(x^2+y^2);$
 $x^2+y^2+z^2=(9.5)^2;$
- Volume of the region: **80.862**; your density function: **$17.8*z^4+7.3*y^4$**

1	1.29	1.7	2.828345631	$6.7+6.5*y^2$
2	1.76	6.9	40.78960660	$19.5*x^2*z^2+10.5*y^4*z^2$
3	1.94	2.8	5.798269092	$3.1*x^2*z^4+9.8*y^4$
4	1.04	9.9	141.0721189	$5.2*x^2*z^2+19.3*y^4$
5	1.95	7.8	47.43264439	$4.3*x^2+8.5*z^4$
6	1.60	7.4	51.55311670	$12.5*z^2+19.4*y^2*z^2$
7	.65	5.4	61.33265940	$3.6+7.3*y^4*z^4$
8	.87	3.7	21.25266625	$7.4*x^2*z^2+18.6*y^4$
9	1.54	7.4	53.47492817	$12.4*x^4*z^4+6.5*y^4*z^4$
10	1.71	8.7	67.24332866	$8.1*x^4*z^2+4.4*y^4*z^2$
11	.93	6.6	67.89629195	$14.3*x^2+15.6*y^2*z^2$
12	.53	4.2	42.14921331	$7.4*z^2+11.6*y^4*z^2$
13	1.12	5.3	36.25819001	$16.8*x^2+6.2*y^2*z^2$
14	.69	2.3	8.952856899	$10.3*x^2*z^2+16.3*z^2$
15	.84	9.4	155.2009645	$6.4*x^4*z^2+3.3*y^4$
16	.71	7.1	101.1688959	$11.6*x^4*z^4+17.7*y^4*z^4$
17	1.40	6.2	40.73850452	$17.0*z^4+9.2*y^2*z^2$
18	.69	9.7	198.9704559	$2.9*z^4+5.9*y^2*z^4$
19	1.70	8.7	67.62566070	$11.0*z^4+19.1*y^2$
20	1.24	8.8	93.73872133	$11.2*x^4*z^4+8.3*z^2$
21	.82	7.4	96.71512282	$11.4*x^2+11.8*y^4*z^4$
22	1.26	1.7	2.881375822	$19.4*x^2+11.8*y^4$