

Lab 9 (November 2 2016)

CCOD

Potapiuk Aleksei, AS-36

Initial data:

1	14,23	1,71	2,43	15,6	127	2,8	3,06	0,28	2,29	5,64	1,04	3,92	1065
1	13,2	1,78	2,14	11,2	100	2,65	2,76	0,26	1,28	4,38	1,05	3,4	1050
1	13,16	2,36	2,67	18,6	101	2,8	3,24	0,3	2,81	5,68	1,03	3,17	1185
1	14,37	1,95	2,5	16,8	113	3,85	3,49	0,24	2,18	7,8	0,86	3,45	1480
1	13,24	2,59	2,87	21	118	2,8	2,69	0,39	1,82	4,32	1,04	2,93	735
1	14,2	1,76	2,45	15,2	112	3,27	3,39	0,34	1,97	6,75	1,05	2,85	1450
1	14,39	1,87	2,45	14,6	96	2,5	2,52	0,3	1,98	5,25	1,02	3,58	1290
1	14,06	2,15	2,61	17,6	121	2,6	2,51	0,31	1,25	5,05	1,06	3,58	1295
1	14,83	1,64	2,17	14	97	2,8	2,98	0,29	1,98	5,2	1,08	2,85	1045
1	13,86	1,35	2,27	16	98	2,98	3,15	0,22	1,85	7,22	1,01	3,55	1045
2	12,37	0,94	1,36	10,6	88	1,98	0,57	0,28	0,42	1,95	1,05	1,82	520
2	12,33	1,1	2,28	16	101	2,05	1,09	0,63	0,41	3,27	1,25	1,67	680
2	12,64	1,36	2,02	16,8	100	2,02	1,41	0,53	0,62	5,75	0,98	1,59	450
2	13,67	1,25	1,92	18	94	2,1	1,79	0,32	0,73	3,8	1,23	2,46	630
2	12,37	1,13	2,16	19	87	3,5	3,1	0,19	1,87	4,45	1,22	2,87	420
2	12,17	1,45	2,53	19	104	1,89	1,75	0,45	1,03	2,95	1,45	2,23	355
2	12,37	1,21	2,56	18,1	98	2,42	2,65	0,37	2,08	4,6	1,19	2,3	678
2	13,11	1,01	1,7	15	78	2,98	3,18	0,26	2,28	5,3	1,12	3,18	502
2	12,37	1,17	1,92	19,6	78	2,11	2	0,27	1,04	4,68	1,12	3,48	510
2	13,34	0,94	2,36	17	110	2,53	1,3	0,55	0,42	3,17	1,02	1,93	750
3	12,86	1,35	2,32	18	122	1,51	1,25	0,21	0,94	4,1	0,76	1,29	630
3	12,88	2,99	2,4	20	104	1,3	1,22	0,24	0,83	5,4	0,74	1,42	530
3	12,81	2,31	2,4	24	98	1,15	1,09	0,27	0,83	5,7	0,66	1,36	560
3	12,7	3,55	2,36	21,5	106	1,7	1,2	0,17	0,84	5	0,78	1,29	600
3	12,51	1,24	2,25	17,5	85	2	0,58	0,6	1,25	5,45	0,75	1,51	650
3	12,6	2,46	2,2	18,5	94	1,62	0,66	0,63	0,94	7,1	0,73	1,58	695
3	12,25	4,72	2,54	21	89	1,38	0,47	0,53	0,8	3,85	0,75	1,27	720
3	12,53	5,51	2,64	25	96	1,79	0,6	0,63	1,1	5	0,82	1,69	515
3	13,49	3,59	2,19	19,5	88	1,62	0,48	0,58	0,88	5,7	0,81	1,82	580
3	12,84	2,96	2,61	24	101	2,32	0,6	0,53	0,81	4,92	0,89	2,15	590

MY RULES:

IF x1=LARGE **AND** X2= VERYSMALL **AND** X3= LARGE **AND** X4= VERYSMALL **AND** X5= SMALL **AND** X6= LARGE **AND** X7= VERYLARGE **AND** X8= VERYSMALL **AND** X9= LARGE **AND** X10= MEDIUM **AND** X11= LARGE **AND** X12= LARGE **AND** X13= VERYLARGE **THEN** A;

IF x1=VERYLARGE **AND** X2= VERYSMALL **AND** X3= LARGE **AND** X4= VERYSMALL **AND** X5= MEDIUM **AND** X6= MEDIUM **AND** X7= VERYLARGE **AND** X8= VERYSMALL **AND** X9= LARGE **AND** X10= MEDIUM **AND** X11= LARGE **AND** X12= LARGE **AND** X13= VERYLARGE **THEN** A;

IF x1=VERYSMALL **AND** X2= VERYSMALL **AND** X3= SMALL **AND** X4= VERYLARGE **AND** X5= MEDIUM **AND** X6= SMALL **AND** X7= MEDIUM **AND** X8= LARGE **AND** X9= LARGE **AND** X10= MEDIUM **AND** X11= MEDIUM **AND** X12= VERYSMALL **AND** X13= SMALL **THEN** B;

IF x1=MEDIUM **AND** X2= VERYSMALL **AND** X3= MEDIUM **AND** X4= MEDIUM **AND** X5= VERYSMALL **AND** X6= MEDIUM **AND** X7= MEDIUM **AND** X8= LARGE **AND** X9= VERYSMALL **AND** X10= MEDIUM **AND** X11= LARGE **AND** X12= SMALL **AND** X13= SMALL **THEN** B;

IF x1=SMALL **AND** X2= SMALL **AND** X3= LARGE **AND** X4= LARGE **AND** X5= LARGE **AND** X6= SMALL **AND** X7= VERYSMALL **AND** X8= LARGE **AND** X9= VERYSMALL **AND** X10= VERYLARGE **AND** X11= VERYSMALL **AND** X12= MEDIUM **AND** X13= VERYSMALL **THEN** C;

IF x1=VERYSMALL **AND** X2= VERYLARGE **AND** X3= LARGE **AND** X4= MEDIUM **AND** X5= LARGE **AND** X6= SMALL **AND** X7= VERYSMALL **AND** X8= LARGE **AND** X9= SMALL **AND** X10= VERYLARGE **AND** X11= SMALL **AND** X12= MEDIUM **AND** X13= VERYSMALL **THEN** C;

IF x1=MEDIUM **AND** X2= LARGE **AND** X3= SMALL **AND** X4= VERYSMALL **AND** X5= VERYLARGE **AND** X6= LARGE **AND** X7= SMALL **AND** X8= MEDIUM **AND** X9= MEDIUM **AND** X10= VERYLARGE **AND** X11= VERYLARGE **AND** X12= SMALL **AND** X13= MEDIUM **THEN** OTHER;

	Class A(1)	Class B(2)	Class C(3)	
Nº	1 or 2 or 3 or 0	1 or 2 or 3 or 0	1 or 2 or 3 or 0	good or nogood
1	1	2	3	good
2	2	2	3	nogood
3	1	2	3	good
4	1	2	3	good
5	1	0	1	nogood

TABLE№1

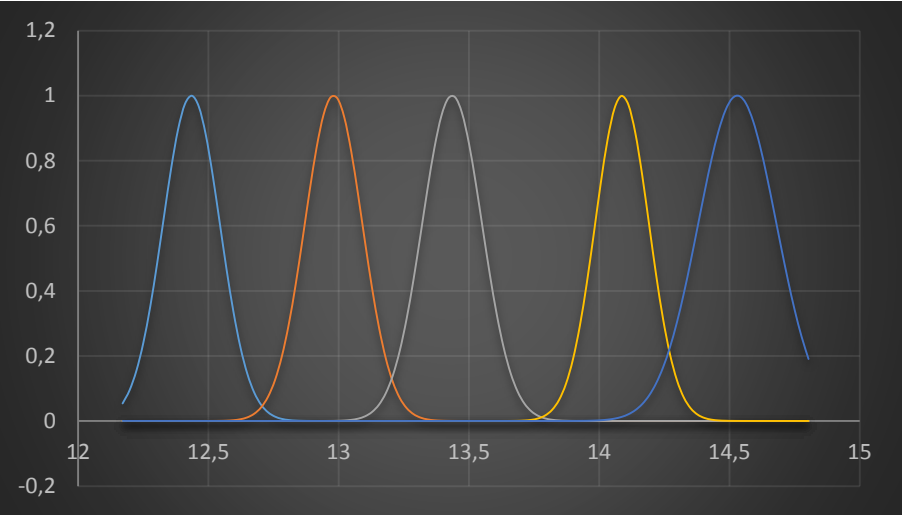


TABLE 1:
VERY SMALL:
AVG:12.43416666666667
STD: 0.0238743055555556

SMALL:
AVG:12.98
STD: 0.024371428571428492

MEDIUM:
AVG:13.435
STD: 0.026324999999999984

LARGE:
AVG:14.0875
STD:
0.0213687500000000047

VERY LARGE:
AVG:14.53
STD: 0.04506666666666671

TABLE№2

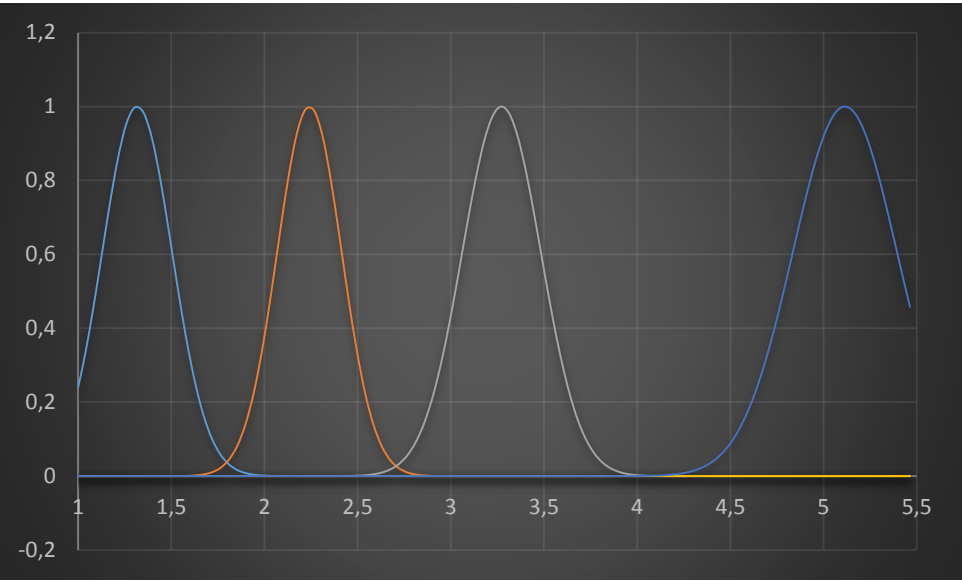


TABLE 2:
VERY SMALL:
AVG: 1.3170588235294114
STD: 0.0703031141868512

SMALL:
AVG: 2.2414285714285715
STD: 0.059897959183673445

MEDIUM:
AVG: 3.2725
STD: 0.08881874999999992

LARGE:
AVG: 0
STD: 0

VERY LARGE:
AVG: 5.115
STD: 0.15602500000000002

TABLE№3

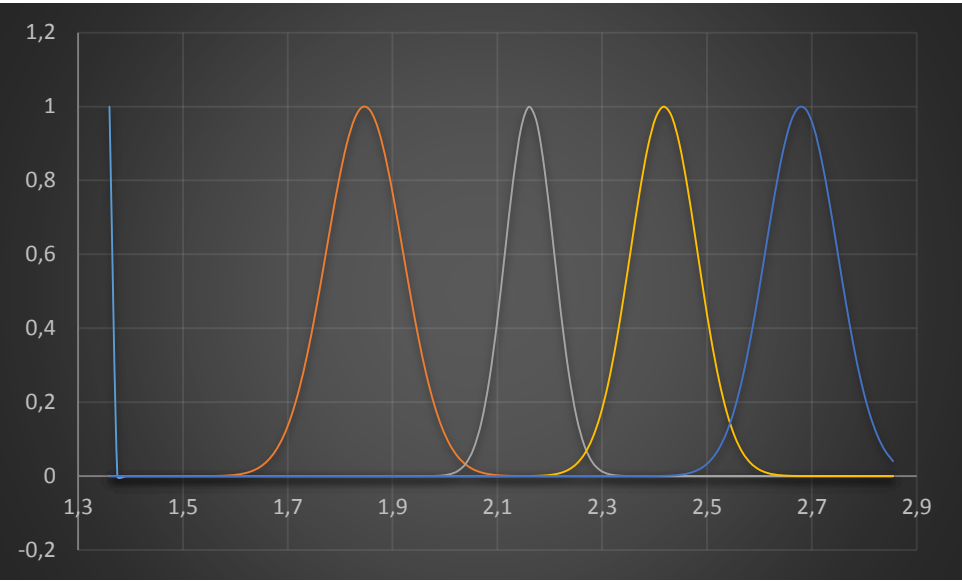


TABLE 3:
VERY SMALL:
AVG: 1.36
STD: 0

SMALL:
AVG: 1.8466666666666667
STD: 0.01075555555555553

MEDIUM:
AVG: 2.1614285714285715
STD: 0.0043836734693877555

LARGE:
AVG: 2.4178571428571427
STD: 0.008173979591836742

VERY LARGE:
AVG: 2.6799999999999997
STD: 0.009520000000000013

TABLE №4

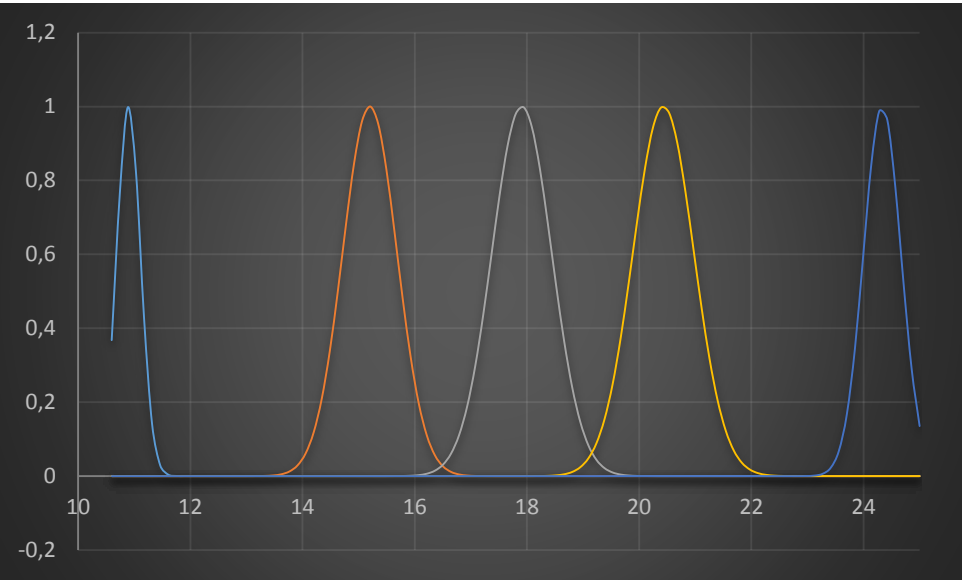


TABLE 4:
VERY SMALL:
AVG: 10.899999999999999
STD: 0.08999999999999989

SMALL:
AVG: 15.2
STD: 0.4685714285714286

MEDIUM:
AVG: 17.908333333333335
STD: 0.5674305555555555

LARGE:
AVG: 20.433333333333337
STD: 0.5888888888888886

VERY LARGE:
AVG: 24.333333333333336
STD: 0.2222222222222224

TABLE №5

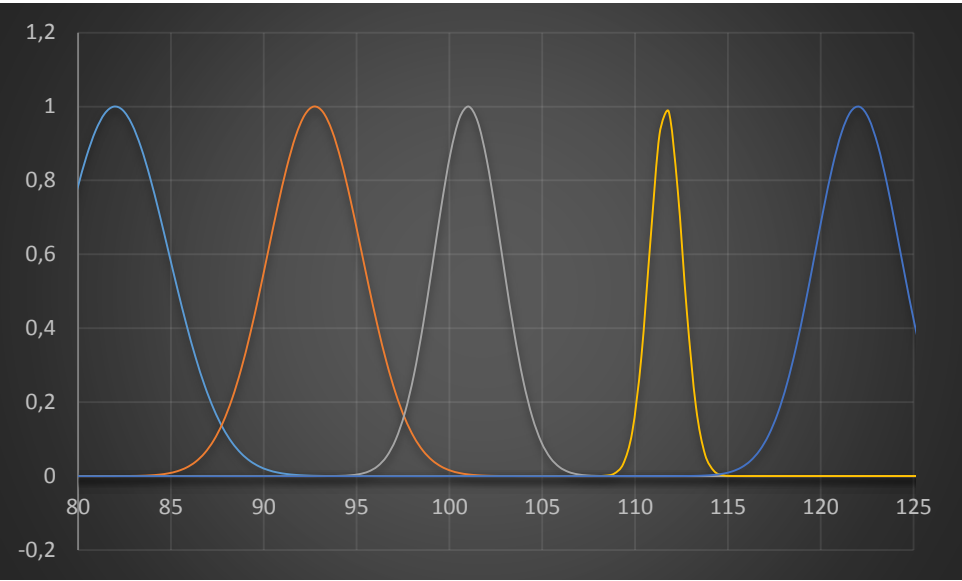


TABLE 5:
VERY SMALL:
AVG: 82
STD: 16.5

SMALL:
AVG: 92.75
STD: 12.6875

MEDIUM:
AVG: 101
STD: 6.545454545454547

LARGE:
AVG: 111.66666666666666
STD: 1.5555555555555556

VERY LARGE:
AVG: 122
STD: 10.5

TABLE №6

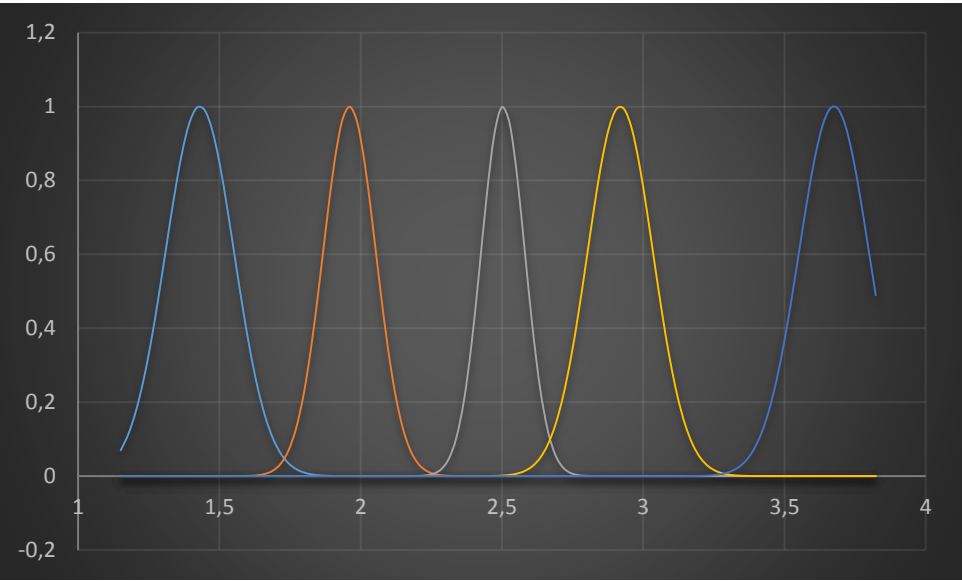


TABLE 6:
VERY SMALL:
AVG: 1.43
STD: 0.029400000000000002

SMALL:
AVG: 1.96
STD: 0.017466666666666665

MEDIUM:
AVG: 2.5033333333333334
STD: 0.012022222222222223

LARGE:
AVG: 2.9185714285714286
STD: 0.026755102040816353

VERY LARGE:
AVG: 3.675
STD: 0.0306250000000000013

TABLE №7

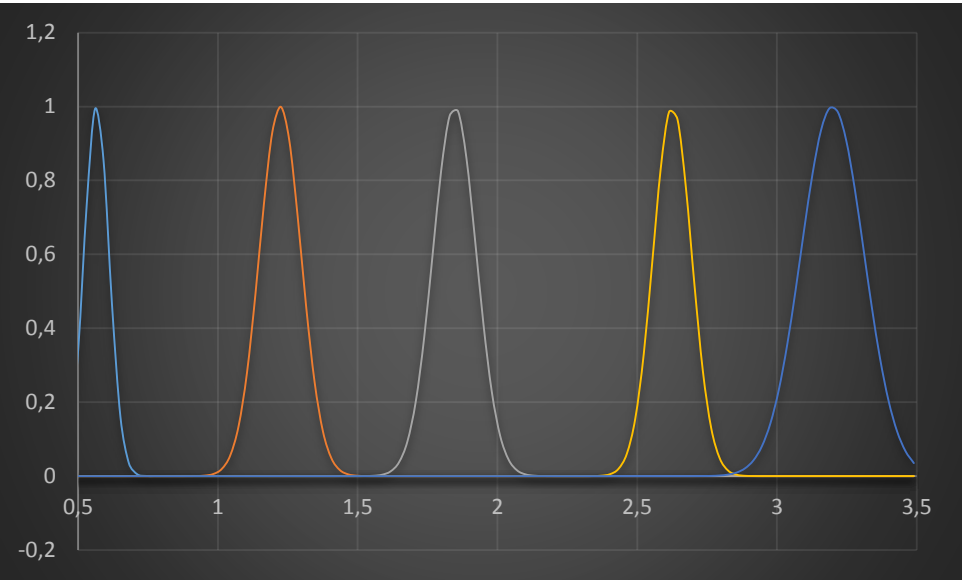


TABLE 7:
VERY SMALL:
AVG: 0.5657142857142857
STD: 0.00399591836734694

SMALL:
AVG: 1.222857142857143
STD: 0.011077551020408156

MEDIUM:
AVG: 1.8466666666666667
STD: 0.012022222222222222

LARGE:
AVG: 2.6260000000000003
STD: 0.009463999999999997

VERY LARGE:
AVG: 3.1987500000000004
STD: 0.025335937500000002

TABLE №8

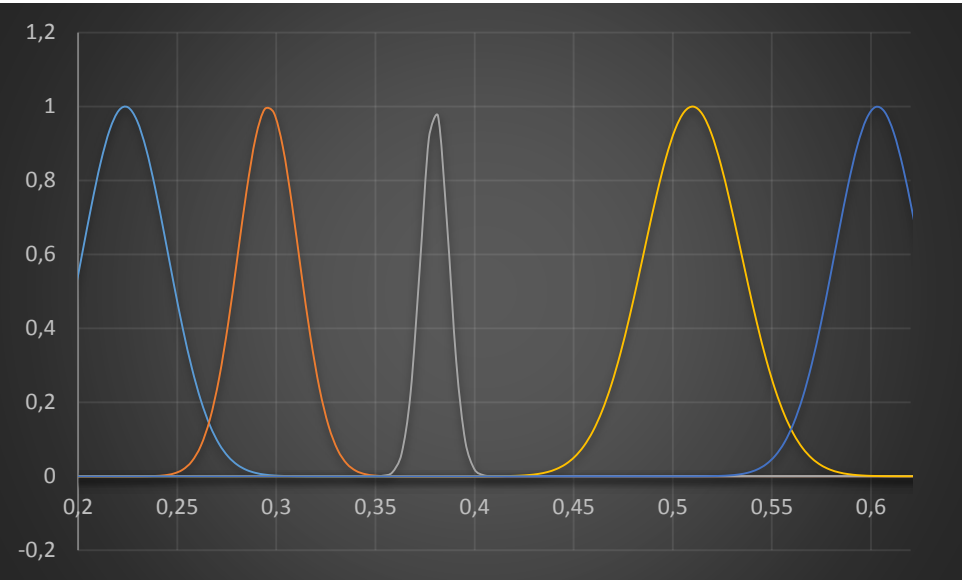


TABLE 8:
VERY SMALL:
AVG: 0.22374999999999998
STD: 0.0009234375

SMALL:
AVG: 0.29600000000000004
STD: 0.0004639999999999999

MEDIUM:
AVG: 0.38
STD: 0.000100000000000000018

LARGE:
AVG: 0.51
STD: 0.00120000000000000008

VERY LARGE:
AVG: 0.6033333333333333
STD: 0.0009222222222222221

TABLE№9

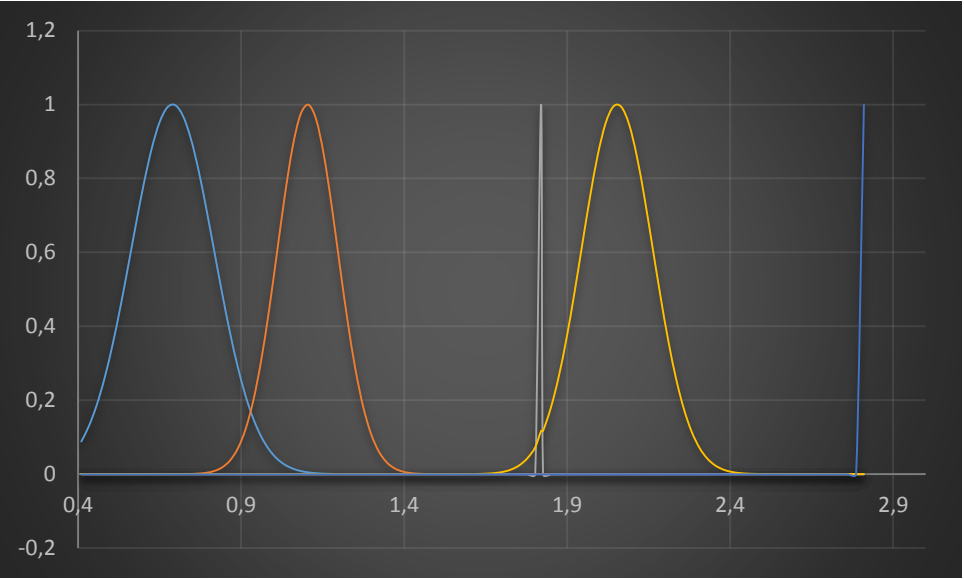


TABLE 9:
VERY SMALL:
AVG: 0.69
STD: 0.032272727272728

SMALL:
AVG: 1.10375
STD: 0.0171234375

MEDIUM:
AVG: 1.82
STD: 0

LARGE:
AVG: 2.053333333333332
STD: 0.024088888888888888

VERY LARGE:
AVG: 2.81
STD: 0

TABLE№10

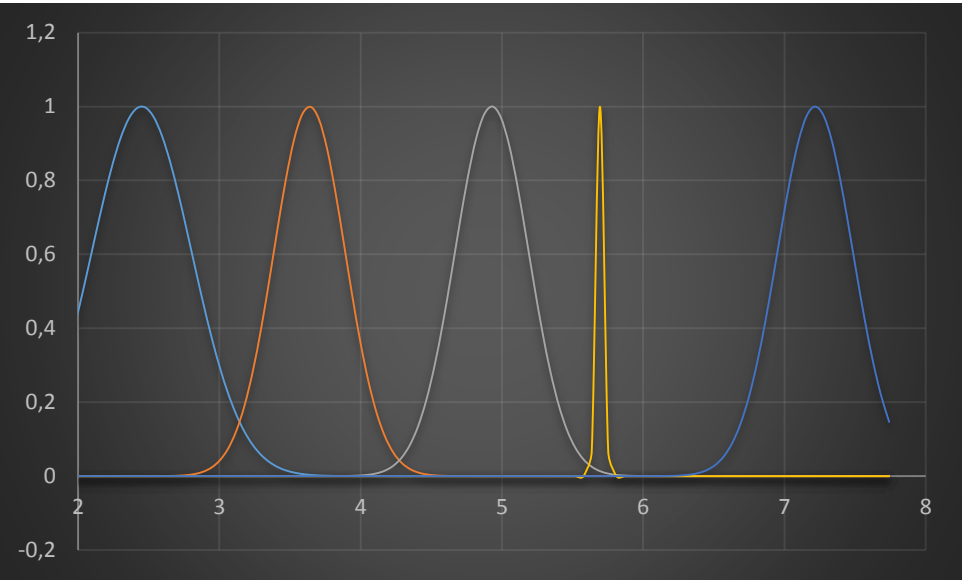


TABLE 10:
VERY SMALL:
AVG: 2.45
STD: 0.250000000000000001

SMALL:
AVG: 3.638
STD: 0.127815999999999993

MEDIUM:
AVG: 4.928571428571429
STD: 0.13601224489795918

LARGE:
AVG: 5.694000000000000001
STD: 0.001264000000000000095

VERY LARGE:
AVG: 7.2175
STD: 0.142918749999999996

TABLE№11

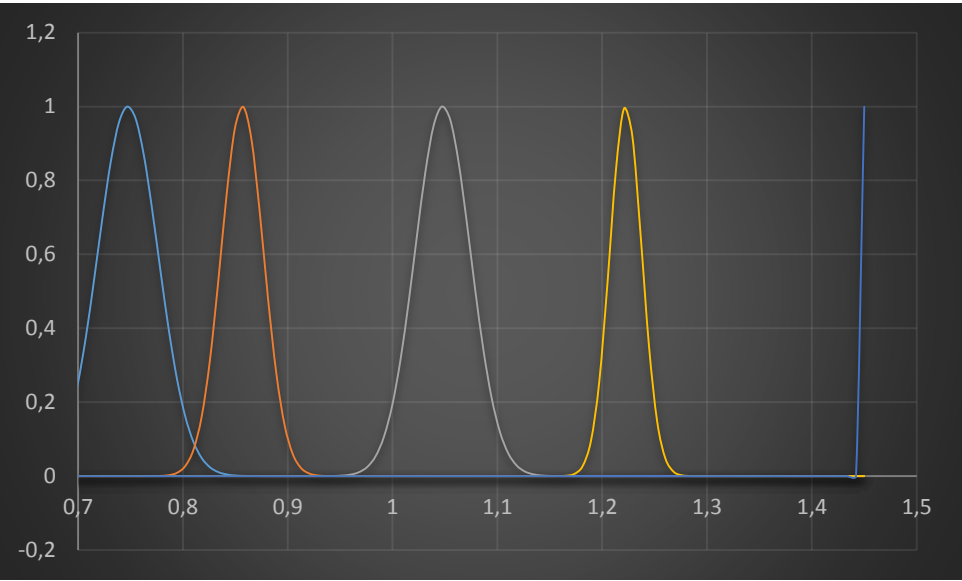


TABLE 11:
VERY SMALL:
AVG: 0.7475
STD: 0.00164375000000000005

SMALL:
AVG: 0.8566666666666667
STD: 0.00082222222222222238

MEDIUM:
AVG: 1.0478571428571428
STD: 0.0014025510204081658

LARGE:
AVG: 1.2225000000000001
STD: 0.00046875000000000085

VERY LARGE:
AVG: 1.45
STD: 0

TABLE№12

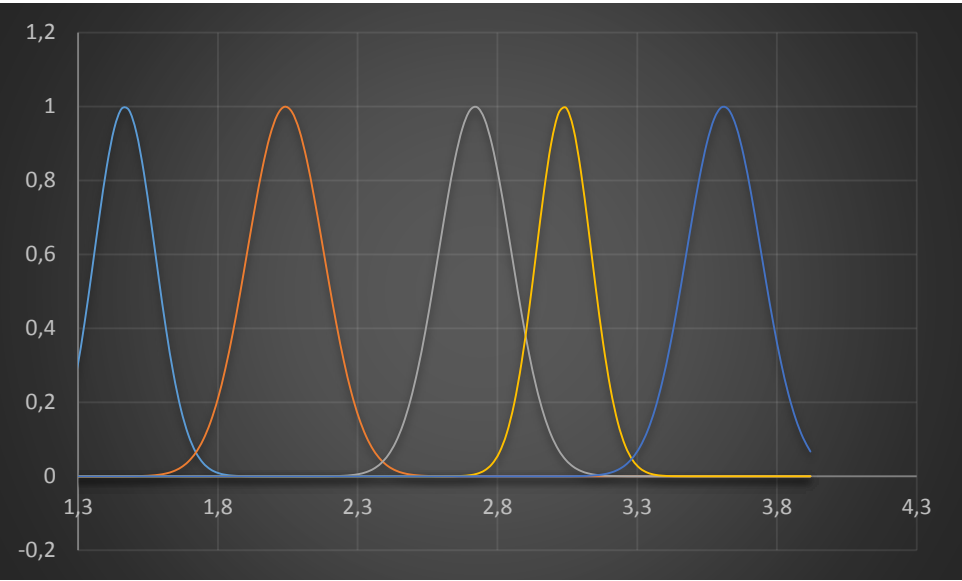


TABLE 12:
VERY SMALL:
AVG: 1.466999999999999
STD: 0.02358099999999998

SMALL:
AVG: 2.0416666666666665
STD: 0.03744722222222222

MEDIUM:
AVG: 2.72
STD: 0.0338000000000000024

LARGE:
AVG: 3.0374999999999996
STD: 0.01936874999999999

VERY LARGE:
AVG: 3.61000000000000003
STD: 0.03552499999999999

TABLE№13

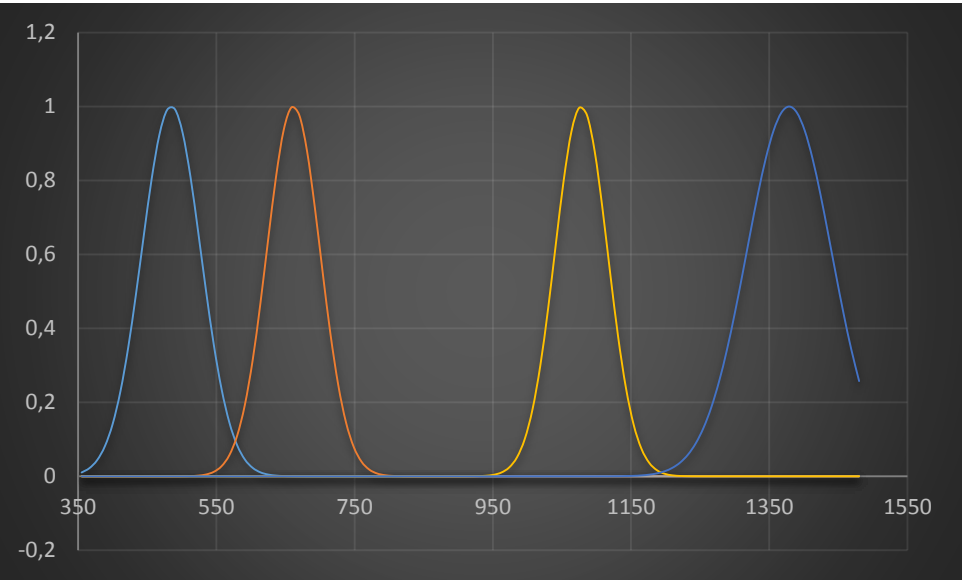


TABLE 13:
VERY SMALL:
AVG: 484.6666666666663
STD: 3670.8888888888887

SMALL:
AVG: 661.5
STD: 3003.9166666666665

MEDIUM:
AVG: 0
STD: 0

LARGE:
AVG: 1078
STD: 2916.0000000000005

VERY LARGE:
AVG: 1378.75
STD: 7554.6875