

## **LAMPIRAN 1**

### **FREKUENSI JAWABAN RESPONDEN**

## Frequencies Variabel Citra Merek (X<sub>1</sub>)

**X1.1**

	Frequency	Percent	Valid Percent	Cumulative Percent
2,00	2	3,6	3,6	3,6
3,00	6	10,7	10,7	14,3
Valid 4,00	24	42,9	42,9	57,1
5,00	24	42,9	42,9	100,0
Total	56	100,0	100,0	

**X1.2**

	Frequency	Percent	Valid Percent	Cumulative Percent
2,00	1	1,8	1,8	1,8
3,00	12	21,4	21,4	23,2
Valid 4,00	23	41,1	41,1	64,3
5,00	20	35,7	35,7	100,0
Total	56	100,0	100,0	

**X1.3**

	Frequency	Percent	Valid Percent	Cumulative Percent
2,00	1	1,8	1,8	1,8
3,00	14	25,0	25,0	26,8
Valid 4,00	28	50,0	50,0	76,8
5,00	13	23,2	23,2	100,0
Total	56	100,0	100,0	

**X1.4**

	Frequency	Percent	Valid Percent	Cumulative Percent
2,00	1	1,8	1,8	1,8
3,00	17	30,4	30,4	32,1
Valid 4,00	28	50,0	50,0	82,1
5,00	10	17,9	17,9	100,0
Total	56	100,0	100,0	

**X1.5**

	Frequency	Percent	Valid Percent	Cumulative Percent
2,00	24	42,9	42,9	42,9
3,00	14	25,0	25,0	67,9
Valid 4,00	12	21,4	21,4	89,3
5,00	6	10,7	10,7	100,0
Total	56	100,0	100,0	

**X1.6**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	1	1,8	1,8	1,8
3,00	9	16,1	16,1	17,9
4,00	34	60,7	60,7	78,6
5,00	12	21,4	21,4	100,0
Total	56	100,0	100,0	

**X1.7**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	2	3,6	3,6	3,6
3,00	9	16,1	16,1	19,6
4,00	29	51,8	51,8	71,4
5,00	16	28,6	28,6	100,0
Total	56	100,0	100,0	

**X1.8**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	1	1,8	1,8	1,8
3,00	11	19,6	19,6	21,4
4,00	33	58,9	58,9	80,4
5,00	11	19,6	19,6	100,0
Total	56	100,0	100,0	

**X1.9**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	17	30,4	30,4	30,4
3,00	22	39,3	39,3	69,6
4,00	10	17,9	17,9	87,5
5,00	7	12,5	12,5	100,0
Total	56	100,0	100,0	

## Frequencies Variabel Kepuasan Konsumen (X<sub>2</sub>)

**X2.1**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	1	1,8	1,8	1,8
3,00	13	23,2	23,2	25,0
4,00	35	62,5	62,5	87,5
5,00	7	12,5	12,5	100,0
Total	56	100,0	100,0	

**X2.2**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 3,00	9	16,1	16,1	16,1
4,00	41	73,2	73,2	89,3
5,00	6	10,7	10,7	100,0
Total	56	100,0	100,0	

**X2.3**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 3,00	14	25,0	25,0	25,0
4,00	34	60,7	60,7	85,7
5,00	8	14,3	14,3	100,0
Total	56	100,0	100,0	

**X2.4**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	1	1,8	1,8	1,8
3,00	16	28,6	28,6	30,4
4,00	31	55,4	55,4	85,7
5,00	8	14,3	14,3	100,0
Total	56	100,0	100,0	

**X2.5**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 3,00	11	19,6	19,6	19,6
4,00	33	58,9	58,9	78,6
5,00	12	21,4	21,4	100,0
Total	56	100,0	100,0	

**X2.6**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 3,00	15	26,8	26,8	26,8
4,00	33	58,9	58,9	85,7
5,00	8	14,3	14,3	100,0
Total	56	100,0	100,0	

**X2.7**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	2	3,6	3,6	3,6
3,00	13	23,2	23,2	26,8
4,00	32	57,1	57,1	83,9
5,00	9	16,1	16,1	100,0
Total	56	100,0	100,0	

**X2.8**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	1	1,8	1,8	1,8
3,00	14	25,0	25,0	26,8
4,00	33	58,9	58,9	85,7
5,00	8	14,3	14,3	100,0
Total	56	100,0	100,0	

**X2.9**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	15	26,8	26,8	26,8
3,00	17	30,4	30,4	57,1
4,00	16	28,6	28,6	85,7
5,00	8	14,3	14,3	100,0
Total	56	100,0	100,0	

**X2.10**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2,00	10	17,9	17,9	17,9
3,00	15	26,8	26,8	44,6
4,00	22	39,3	39,3	83,9
5,00	9	16,1	16,1	100,0
Total	56	100,0	100,0	

## Frequencies Variabel Loyalitas Merek (Y)

**Y1**

	Frequency	Percent	Valid Percent	Cumulative Percent
	2,00	1	1,8	1,8
	3,00	13	23,2	25,0
Valid	4,00	28	50,0	75,0
	5,00	14	25,0	100,0
Total	56	100,0	100,0	

**Y2**

	Frequency	Percent	Valid Percent	Cumulative Percent
	2,00	1	1,8	1,8
	3,00	2	3,6	5,4
Valid	4,00	40	71,4	76,8
	5,00	13	23,2	100,0
Total	56	100,0	100,0	

**Y3**

	Frequency	Percent	Valid Percent	Cumulative Percent
	2,00	3	5,4	5,4
	3,00	13	23,2	28,6
Valid	4,00	34	60,7	89,3
	5,00	6	10,7	100,0
Total	56	100,0	100,0	

**Y4**

	Frequency	Percent	Valid Percent	Cumulative Percent
	3,00	2	3,6	3,6
	4,00	34	60,7	64,3
Valid	5,00	20	35,7	100,0
Total	56	100,0	100,0	

**LAMPIRAN 2**

**KUESIONER**

## **LEMBAR KUESIONER**

### **Identitas Penelitian**

Nama : Sandi Risky Susanti  
NIM : 20131221274  
Fakultas : Ekonomi Bisnis

Sehubungan dengan adanya penelitian untuk tugas akhir program strata satu (S1) Fakultas Ekonomi bisnis. Saya meminta kesediaan Bapak/Ibu untuk membantu penelitian saya yang berjudul **“Pengaruh Citra Merek dan Kepuasan Konsumen terhadap Loyalitas Merek produk obat herbal Tolak Angin”** dengan mengisi kuesioner yang telah disediakan. Atas perhatian dan bantuannya saya ucapkan terima kasih.

### **Cara pengisian**

Pilih jawaban yang paling sesuai pendapat Bapak/Ibu dengan memberi tanda (√) pada kolom yang disediakan. Berikut merupakan bobot pilihan jawaban:

(SS) Sangat Setuju : 5  
(S) Setuju : 4  
(CS) Cukup Setuju : 3  
(TS) Tidak Setuju : 2  
(STS) Sangat tidak setuju : 1

### **Profil responden**

Usia :  < 17 Thn       25 – 50 Thn  
    17 – 25 Thn       > 50 Thn

Jenis Kelamin : Laki-Laki / Perempuan

*\*coret yang tidak perlu*



### SCREENING

Apakah anda adalah orang yang mengkonsumsi Tolak Angin?

- a. Ya, silahkan lanjutkan ke pertanyaan berikutnya
- b. Tidak, cukup sampai disini pertanyaanya

*\*lingkari jawaban di atas*

### Citra Merek (X<sub>1</sub>)

No	Pertanyaan	SS	S	CS	TS	STS
1.	Tolak Angin memiliki penampilan fisik yang menarik					
2.	Tolak Angin merupakan produk obat herbal yang memenuhi kebutuhan saya					
3.	Tolak Angin memiliki harga sesuai ekonomi masyarakat					
4.	Tolak Angin memiliki variasi produk sesuai kebutuhan masyarakat Indonesia					
5.	Tolak Angin memiliki variasi harga sesuai dengan kegunaan produk					
6.	Tolak Angin memiliki nama yang unik sehingga konsumen memilihnya sebagai produk obat herbal andalan					
7.	Tolak Angin merupakan produk obat herbal yang mudah diucapkan					
8.	Tolak Angin merupakan produk obat herbal yang mudah diingat					
9.	Tolak Angin adalah produk terkenal dan menjadi favorit masyarakat Indonesia					

**Kepuasan Konsumen (X<sub>2</sub>)**

No.	Pertanyaan	SS	S	CS	TS	STS
1.	Tolak angin merupakan produk yang selalu menerima keluhan konsumen dengan baik					
2.	Tolak angin merupakan produk yang selalu tanggap atas keluhan konsumen					
3.	Tolak Angin memberikan informasi dengan baik yang dibutuhkan konsumen					
4.	Saya akan menjadi konsumen produk Tolak angin yang setia					
5.	Saya akan membeli lebih banyak ketika perusahaan memperkenalkan produk barunya					
6.	Saya akan membicarakan hal baik mengenai produk Tolak angin					
7.	Saya tidak akan terpengaruh dengan iklan produk lainnya yang sejenis					
8.	Saya puas dengan produk Tolak Angin					
9.	Saya merasa aman ketika mengkonsumsi produk Tolak Angin					
10.	Tolak Angin selalu memberi saran atas keluhan konsumen					

**Loyalitas merek (Y)**

No.	Pertanyaan	SS	S	CS	TS	STS
1.	Saya selalu membeli produk Tolak Angin ketika membutuhkannya					
2.	Saya merasa puas dengan kegunaan produk Tolak Angin					
3.	Saya juga mengkonsumsi jenis produk lainnya dari Sidomuncul					
4.	Saya akan merekomendasikan produk Tolak Angin kepada sahabat, keluarga dll					

Tabulasi Jawaban Responden

No	X1.1	X1.2	X1.3	X1.4	X1.5	X1.6	X1.7	X1.8	X1.9	TX1	X2.1	X2.2	X2.3	X2.4	X2.5	X2.6	X2.7	X2.8	X2.9	X2.10	TX2	No	Y1	Y2	Y3	Y4	TY
1	4	4	3	4	3	4	4	4	3	33	3	4	4	3	4	3	4	4	3	3	35	1	4	4	4	4	16
2	3	3	4	3	4	3	4	3	3	30	4	4	3	4	3	4	5	4	3	4	38	2	4	4	3	4	15
3	4	4	3	3	2	4	3	4	2	29	4	4	3	4	3	3	4	4	2	4	35	3	3	4	4	4	15
4	3	4	4	4	2	4	3	3	3	30	3	3	4	3	4	4	3	4	3	4	35	4	4	4	3	4	15
5	4	4	4	3	4	4	4	4	3	34	3	4	4	4	4	4	4	4	4	3	38	5	4	4	4	4	16
6	4	4	4	4	2	4	4	3	3	32	4	4	3	4	3	3	4	3	3	2	33	6	3	4	3	4	14
7	5	4	5	5	3	5	5	4	4	40	4	4	4	4	5	5	5	4	4	5	44	7	4	5	5	5	19
8	4	4	4	4	2	4	4	3	3	32	4	3	4	3	4	4	4	3	3	2	34	8	3	4	3	4	14
9	3	3	3	3	3	3	3	3	3	27	2	4	3	2	3	3	3	3	3	3	29	9	3	3	3	3	12
10	5	5	3	4	4	3	5	4	2	35	3	4	5	5	3	5	3	4	4	3	39	10	3	4	3	5	15
11	5	3	4	5	2	5	4	4	2	34	4	4	4	4	4	4	4	4	2	4	38	11	3	4	4	4	15
12	4	4	5	3	3	4	4	3	3	33	4	3	4	5	4	4	4	3	4	4	39	12	4	4	3	4	15
13	4	4	4	4	2	4	2	4	3	31	4	4	3	4	4	3	2	4	2	4	34	13	3	4	4	4	15
14	2	3	3	4	3	2	3	3	3	26	4	4	4	4	5	5	3	3	5	2	39	14	2	4	2	4	12
15	4	4	4	5	5	5	5	5	4	41	5	4	4	5	3	3	5	5	5	5	44	15	4	5	5	5	19
16	5	3	5	3	4	4	4	4	2	34	3	5	4	3	4	4	4	4	2	3	36	16	3	4	3	5	15
17	5	5	5	4	2	4	3	4	3	35	4	4	3	4	4	3	3	3	3	4	35	17	3	4	3	4	14
18	5	5	5	4	2	4	5	4	2	36	4	4	4	4	5	4	5	4	2	2	38	18	4	2	4	5	15
19	4	3	3	4	5	5	5	4	4	37	3	4	4	3	4	4	4	3	4	4	37	19	4	4	4	4	16
20	5	5	3	3	5	5	5	5	4	40	4	4	5	4	4	4	3	5	4	3	40	20	3	5	5	5	18
21	5	3	4	4	3	3	4	4	2	32	4	4	4	3	4	4	4	4	2	3	36	21	4	4	2	4	14
22	4	4	2	4	4	4	4	4	3	33	4	4	4	4	4	4	4	4	3	3	38	22	5	5	3	5	18
23	2	3	4	3	2	3	5	5	3	30	3	3	3	4	3	4	3	4	3	4	34	23	3	3	4	4	14
24	5	5	5	5	5	4	5	4	5	43	5	5	5	5	4	5	4	4	5	5	47	24	5	5	5	5	20
25	5	4	3	3	3	5	2	5	2	32	5	4	3	3	4	3	2	3	4	2	33	25	3	5	2	5	15
26	5	5	5	3	2	4	4	4	4	36	4	4	4	4	4	4	4	4	4	3	39	26	5	5	3	3	16
27	4	5	4	5	4	4	5	5	4	40	4	4	4	4	5	4	5	5	5	4	44	27	5	5	4	5	19
28	4	4	5	4	3	4	5	5	5	39	5	4	5	4	4	5	4	4	5	5	45	28	5	5	4	5	19

29	4	5	4	5	4	4	5	5	5	41	5	5	4	5	5	4	4	5	4	5	46	29	5	5	4	5	19
30	5	4	4	4	2	4	5	4	3	35	4	4	4	4	4	4	5	4	3	4	40	30	5	4	4	5	18
31	4	4	5	4	2	5	4	5	3	36	3	4	4	3	4	4	4	5	2	4	37	31	5	5	4	5	19
32	3	3	3	4	3	4	3	4	4	31	4	3	4	4	5	4	3	4	2	2	35	32	4	4	4	4	16
33	5	4	4	3	2	3	4	3	2	30	4	4	3	4	4	3	4	3	3	3	35	33	4	4	4	4	16
34	4	3	4	4	2	4	3	4	3	31	4	4	4	4	5	4	3	4	3	4	39	34	4	4	4	4	16
35	5	5	4	4	2	4	4	2	2	32	4	4	4	4	4	4	4	2	2	3	35	35	4	4	4	4	16
36	4	5	3	3	2	3	4	4	2	30	4	3	4	4	4	4	4	4	4	2	37	36	4	4	4	4	16
37	4	4	4	3	2	4	4	4	2	31	4	4	3	3	4	3	4	4	2	2	33	37	4	4	4	4	16
38	5	5	3	4	2	4	4	4	2	33	4	4	4	5	4	4	4	4	2	2	37	38	4	4	4	4	16
39	5	5	4	2	2	4	4	4	2	32	4	4	4	4	4	4	4	4	2	5	39	39	4	4	4	4	16
40	5	5	4	3	2	4	4	4	2	33	4	4	4	3	3	4	4	5	2	2	35	40	4	4	4	4	16
41	5	2	4	4	3	4	4	4	2	32	4	4	4	4	4	4	4	4	2	3	37	41	4	4	4	4	16
42	5	5	5	5	2	4	3	4	3	36	4	4	3	4	5	3	3	3	4	4	37	42	4	4	4	5	17
43	5	3	4	4	3	3	5	4	4	35	3	4	4	3	4	4	5	4	3	5	39	43	5	4	4	4	17
44	4	5	4	3	4	5	4	3	5	37	3	5	3	3	4	3	4	3	4	5	37	44	5	4	4	4	17
45	5	5	4	5	4	4	5	4	3	39	5	4	4	5	5	4	4	4	2	3	40	45	5	4	4	5	18
46	3	4	4	4	3	4	4	4	2	32	4	3	4	3	4	4	4	3	5	4	38	46	4	4	4	4	16
47	4	5	5	4	2	5	4	3	4	36	4	4	4	4	5	3	3	4	4	4	39	47	5	4	4	4	17
48	4	4	4	3	4	4	4	4	3	34	4	4	4	4	4	4	4	4	3	3	38	48	4	4	4	4	16
49	4	3	3	4	4	4	3	4	3	32	3	3	5	4	3	5	3	3	4	4	37	49	4	4	4	4	16
50	3	4	3	3	3	3	4	3	4	30	4	4	3	4	4	3	3	3	4	4	36	50	4	4	3	4	15
51	4	4	4	4	2	4	4	4	2	32	3	3	4	3	4	4	4	4	4	4	37	51	4	4	4	4	16
52	4	4	4	4	2	4	4	4	3	33	3	4	5	3	3	5	4	4	3	4	38	52	3	4	4	5	16
53	5	5	4	5	4	5	5	5	5	43	4	5	4	4	5	4	5	5	5	4	45	53	5	5	5	5	20
54	4	4	5	4	5	4	4	4	5	39	4	4	5	3	3	4	4	4	3	4	38	54	4	4	4	4	16
55	5	5	5	5	5	5	5	5	5	45	5	5	5	5	5	5	5	4	5	5	49	55	5	5	5	5	20
56	5	5	3	4	3	5	4	5	3	37	4	4	3	4	4	3	4	5	3	3	37	56	4	4	3	5	16

## **LAMPIRAN 4**

### **UJI VALIDITAS UJI RELIABILITAS**

## Uji Validitas dan Reliabilitas Citra Merek (X<sub>1</sub>)

### Case Processing Summary

		N	%
Cases	Valid	56	100,0
	Excluded <sup>a</sup>	0	,0
	Total	56	100,0

a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	N of Items
,726	9

### Descriptive Statistics

	N	Mean	Std. Deviation
X1.1	56	4,2500	,79201
X1.2	56	4,1071	,80178
X1.3	56	3,9464	,74881
X1.4	56	3,8393	,73303
X1.5	56	3,0000	1,04447
X1.6	56	4,0179	,67396
X1.7	56	4,0536	,77271
X1.8	56	3,9643	,68661
X1.9	56	3,1250	,99201
Valid N (listwise)	56		

### Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
X1.1	30,0536	14,306	,317	,716
X1.2	30,1964	14,197	,330	,714
X1.3	30,3571	14,743	,266	,724
X1.4	30,4643	13,853	,448	,695
X1.5	31,3036	12,943	,373	,712

X1.6	30,2857	13,917	,490	,690
X1.7	30,2500	13,318	,517	,682
X1.8	30,3393	14,192	,419	,700
X1.9	31,1786	12,331	,505	,681

## Uji Validitas dan Reliabilitas Kepuasan Konsumen (X<sub>2</sub>)

### Case Processing Summary

		N	%
Cases	Valid	56	100,0
	Excluded <sup>a</sup>	0	,0
	Total	56	100,0

a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	N of Items
,698	10

### Descriptive Statistics

	N	Mean	Std. Deviation
X2.1	56	3,8571	,64466
X2.2	56	3,9464	,51943
X2.3	56	3,8929	,62315
X2.4	56	3,8214	,69038
X2.5	56	4,0179	,64642
X2.6	56	3,8750	,63425
X2.7	56	3,8571	,72434
X2.8	56	3,8571	,67227
X2.9	56	3,3036	1,02549
X2.10	56	3,5357	,97168
Valid N (listwise)	56		

### Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
X2.1	34,1071	12,206	,386	,671
X2.2	34,0179	12,891	,322	,682

X2.3	34,0714	12,031	,449	,662
X2.4	34,1429	11,761	,449	,660
X2.5	33,9464	12,706	,269	,689
X2.6	34,0893	12,156	,408	,668
X2.7	34,1071	12,097	,345	,677
X2.8	34,1071	12,534	,289	,686
X2.9	34,6607	10,810	,371	,678
X2.10	34,4286	11,049	,367	,677



## Uji Validitas dan Reliabilitas Loyalitas Merek (Y)

### Case Processing Summary

		N	%
Cases	Valid	56	100, 0
	Excluded <sup>a</sup>	0	,0
	Total	56	100, 0

a. Listwise deletion based on all variables in the procedure.

### Reliability Statistics

Cronbach's Alpha	N of Items
,654	4

### Descriptive Statistics

	N	Mean	Std. Deviation
Y1	56	3,9821	,75054
Y2	56	4,1607	,56494
Y3	56	3,7679	,71328
Y4	56	4,3214	,54296
Valid N (listwise)	56		

### Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
Y1	12,2500	1,791	,475	,560
Y2	12,0714	2,213	,462	,574
Y3	12,4643	1,962	,419	,600
Y4	11,9107	2,337	,408	,607

## **LAMPIRAN 5**

### **UJI REGRESI LINIER BERGANDA**

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	1,449	1,307		1,109	,272		
	Citra Merek	,234	,053	,528	4,406	,000	,354	,829
	Kepuasan Konsumen	,178	,058	,370	3,091	,003	,354	,829

a. Dependent Variable: Loyalitas Merek

**Regression**

**Variables Entered/Removed<sup>a</sup>**

Model	Variables Entered	Variables Removed	Method
1	Kepuasan Konsumen, Citra Merek <sup>b</sup>		Enter

a. Dependent Variable: Loyalitas Merek

b. All requested variables entered.

**Model Summary<sup>b</sup>**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,855 <sup>a</sup>	,731	,721	,96140

a. Predictors: (Constant), Kepuasan Konsumen, Citra Merek

b. Dependent Variable: Loyalitas Merek

**ANOVA<sup>a</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	132,995	2	66,497	71,944	,000 <sup>b</sup>
	Residual	48,988	53	,924		
	Total	181,982	55			

a. Dependent Variable: Loyalitas Merek

b. Predictors: (Constant), Kepuasan Konsumen, Citra Merek

## **LAMPIRAN 6**

### **TABEL F DAN TABEL T**

## **LAMPIRAN 3**

### **TABULASI JAWABAN RESPONDEN**

df	t tabel 0,01	t tabel 0,005	t tabel 0.05	t tabel 0.025
1	31.82	63.66	6.314	12.706
2	6.96	9.92	2.920	4.303
3	4.54	5.84	2.353	3.182
4	3.75	4.60	2.132	2.776
5	3.36	4.03	2.015	2.571
6	3.14	3.71	1.943	2.447
7	3.00	3.50	1.895	2.365
8	2.90	3.36	1.860	2.306
9	2.82	3.25	1.833	2.262
10	2.76	3.17	1.813	2.228
11	2.72	3.11	1.796	2.201
12	2.68	3.05	1.782	2.179
13	2.65	3.01	1.771	2.160
14	2.62	2.98	1.761	2.145
15	2.60	2.95	1.753	2.131
16	2.58	2.92	1.746	2.120
17	2.57	2.90	1.740	2.110
18	2.55	2.88	1.734	2.101
19	2.54	2.86	1.729	2.093
20	2.53	2.85	1.725	2.086
21	2.52	2.83	1.721	2.080
22	2.51	2.82	1.717	2.074
23	2.50	2.81	1.714	2.069
24	2.49	2.80	1.711	2.064
25	2.49	2.79	1.708	2.060
26	2.48	2.78	1.706	2.056
27	2.47	2.77	1.703	2.052

28	2.47	2.76	1.701	2.048
29	2.46	2.76	1.699	2.045
30	2.46	2.75	1.697	2.042
31	2.45	2.74	1.696	2.040
32	2.45	2.74	1.694	2.037
33	2.44	2.73	1.692	2.035
34	2.44	2.73	1.691	2.032
35	2.44	2.72	1.690	2.030
36	2.43	2.72	1.688	2.028
37	2.43	2.72	1.687	2.026
38	2.43	2.71	1.686	2.024
39	2.43	2.71	1.685	2.023
40	2.42	2.70	1.684	2.021
41	2.42	2.70	1.683	2.020
42	2.42	2.70	1.682	2.018
43	2.42	2.70	1.681	2.017
44	2.41	2.69	1.680	2.015
45	2.41	2.69	1.679	2.014
46	2.41	2.69	1.679	2.013
47	2.41	2.68	1.678	2.012
48	2.41	2.68	1.677	2.011
49	2.40	2.68	1.677	2.010
50	2.40	2.68	1.676	2.009
51	2.40	2.68	1.675	2.008
52	2.40	2.67	1.675	2.007
53	2.40	2.67	1.674	2.006
54	2.40	2.67	1.674	2.005
55	2.40	2.67	1.673	2.004
56	2.39	2.67	1.673	2.003

57	2.39	2.66	1.672	2.003
58	2.39	2.66	1.672	2.002
59	2.39	2.66	1.671	2.001
60	2.39	2.66	1.671	2.000
61	2.39	2.66	1.670	2.000
62	2.39	2.66	1.670	1.999
63	2.39	2.66	1.669	1.998
64	2.39	2.65	1.669	1.998
65	2.39	2.65	1.669	1.997
66	2.38	2.65	1.668	1.997
67	2.38	2.65	1.668	1.996
68	2.38	2.65	1.668	1.996
69	2.38	2.65	1.667	1.995
70	2.38	2.65	1.667	1.994
71	2.38	2.65	1.667	1.994
72	2.38	2.65	1.666	1.994
73	2.38	2.64	1.666	1.993
74	2.38	2.64	1.666	1.993
75	2.38	2.64	1.665	1.992
76	2.38	2.64	1.665	1.992
77	2.38	2.64	1.665	1.991
78	2.38	2.64	1.665	1.991
79	2.37	2.64	1.664	1.991
80	2.37	2.64	1.664	1.990
81	2.37	2.64	1.664	1.990
82	2.37	2.64	1.664	1.989
83	2.37	2.64	1.663	1.989
84	2.37	2.64	1.663	1.989
85	2.37	2.63	1.663	1.988

86	2.37	2.63	1.663	1.988
87	2.37	2.63	1.663	1.988
88	2.37	2.63	1.662	1.987
89	2.37	2.63	1.662	1.987
90	2.37	2.63	1.662	1.987
91	2.37	2.63	1.662	1.986
92	2.37	2.63	1.662	1.986
93	2.37	2.63	1.661	1.986
94	2.37	2.63	1.661	1.986
95	2.37	2.63	1.661	1.985
96	2.37	2.63	1.661	1.985
97	2.37	2.63	1.661	1.985
98	2.37	2.63	1.661	1.985
99	2.36	2.63	1.660	1.984
100	2.36	2.63	1.660	1.984
101	2.36	2.63	1.660	1.984
102	2.36	2.62	1.660	1.984
103	2.36	2.62	1.660	1.983
104	2.36	2.62	1.660	1.983
105	2.36	2.62	1.660	1.983
106	2.36	2.62	1.659	1.983
107	2.36	2.62	1.659	1.982
108	2.36	2.62	1.659	1.982
109	2.36	2.62	1.659	1.982
110	2.36	2.62	1.659	1.982
111	2.36	2.62	1.659	1.982
112	2.36	2.62	1.659	1.981
113	2.36	2.62	1.659	1.981
114	2.36	2.62	1.658	1.981

115	2.36	2.62	1.658	1.981
116	2.36	2.62	1.658	1.981
117	2.36	2.62	1.658	1.980
118	2.36	2.62	1.658	1.980
119	2.36	2.62	1.658	1.980
120	2.36	2.62	1.658	1.980
121	2.36	2.62	1.658	1.980
122	2.36	2.62	1.657	1.980
123	2.36	2.62	1.657	1.979
124	2.36	2.62	1.657	1.979
125	2.36	2.62	1.657	1.979
126	2.36	2.62	1.657	1.979
127	2.36	2.62	1.657	1.979
128	2.36	2.61	1.657	1.979
129	2.36	2.61	1.657	1.979
130	2.36	2.61	1.657	1.978
131	2.36	2.61	1.657	1.978
132	2.35	2.61	1.657	1.978
133	2.35	2.61	1.656	1.978
134	2.35	2.61	1.656	1.978
135	2.35	2.61	1.656	1.978
136	2.35	2.61	1.656	1.978
137	2.35	2.61	1.656	1.977
138	2.35	2.61	1.656	1.977
139	2.35	2.61	1.656	1.977
140	2.35	2.61	1.656	1.977
141	2.35	2.61	1.656	1.977
142	2.35	2.61	1.656	1.977
143	2.35	2.61	1.656	1.977

144	2.35	2.61	1.656	1.977
145	2.35	2.61	1.655	1.977
146	2.35	2.61	1.655	1.976
147	2.35	2.61	1.655	1.976
148	2.35	2.61	1.655	1.976
149	2.35	2.61	1.655	1.976
150	2.35	2.61	1.655	1.976
151	2.35	2.61	1.655	1.976
152	2.35	2.61	1.655	1.976
153	2.35	2.61	1.655	1.976
154	2.35	2.61	1.655	1.976
155	2.35	2.61	1.655	1.975
156	2.35	2.61	1.655	1.975
157	2.35	2.61	1.655	1.975
158	2.35	2.61	1.655	1.975
159	2.35	2.61	1.655	1.975
160	2.35	2.61	1.654	1.975
161	2.35	2.61	1.654	1.975
162	2.35	2.61	1.654	1.975
163	2.35	2.61	1.654	1.975
164	2.35	2.61	1.654	1.975
165	2.35	2.61	1.654	1.974
166	2.35	2.61	1.654	1.974
167	2.35	2.61	1.654	1.974
168	2.35	2.61	1.654	1.974
169	2.35	2.61	1.654	1.974
170	2.35	2.61	1.654	1.974
171	2.35	2.60	1.654	1.974
172	2.35	2.60	1.654	1.974



173	2.35	2.60	1.654	1.974
174	2.35	2.60	1.654	1.974
175	2.35	2.60	1.654	1.974
176	2.35	2.60	1.654	1.974
177	2.35	2.60	1.654	1.974
178	2.35	2.60	1.654	1.973
179	2.35	2.60	1.653	1.973
180	2.35	2.60	1.653	1.973
181	2.35	2.60	1.653	1.973
182	2.35	2.60	1.653	1.973
183	2.35	2.60	1.653	1.973
184	2.35	2.60	1.653	1.973
185	2.35	2.60	1.653	1.973
186	2.35	2.60	1.653	1.973
187	2.35	2.60	1.653	1.973
188	2.35	2.60	1.653	1.973
189	2.35	2.60	1.653	1.973
190	2.35	2.60	1.653	1.973
191	2.35	2.60	1.653	1.973
192	2.35	2.60	1.653	1.972
193	2.35	2.60	1.653	1.972
194	2.35	2.60	1.653	1.972
195	2.35	2.60	1.653	1.972
196	2.35	2.60	1.653	1.972
197	2.35	2.60	1.653	1.972
198	2.35	2.60	1.653	1.972
199	2.35	2.60	1.653	1.972
200	2.35	2.60	1.653	1.972

f tabel df1=1	f tabel df1=2	f tabel df1=3	f tabel df1=4	f tabel df1=5	f tabel df1=6	f tabel df1=7
161.448	199.500	215.707	224.583	230.162	233.990	236.770
18.513	19.000	19.164	19.247	19.296	19.330	19.350
10.128	9.552	9.277	9.117	9.014	8.940	8.890
7.709	6.944	6.591	6.388	6.256	6.160	6.090
6.608	5.786	5.410	5.192	5.050	4.950	4.880
5.987	5.143	4.757	4.534	4.387	4.280	4.210
5.591	4.737	4.347	4.120	3.972	3.870	3.790
5.318	4.459	4.066	3.838	3.688	3.580	3.500
5.117	4.257	3.863	3.633	3.482	3.370	3.290
4.965	4.103	3.708	3.478	3.326	3.220	3.140
4.844	3.982	3.587	3.357	3.204	3.090	3.010
4.747	3.885	3.490	3.259	3.106	3.000	2.910
4.667	3.806	3.411	3.179	3.025	2.920	2.830
4.600	3.739	3.344	3.112	2.958	2.850	2.760
4.543	3.682	3.287	3.056	2.901	2.790	2.710
4.494	3.634	3.239	3.007	2.852	2.740	2.660
4.451	3.592	3.197	2.965	2.810	2.700	2.610
4.414	3.555	3.160	2.928	2.773	2.660	2.580
4.381	3.522	3.127	2.895	2.740	2.630	2.540
4.351	3.493	3.098	2.866	2.711	2.600	2.510
4.325	3.467	3.073	2.840	2.685	2.570	2.490
4.301	3.443	3.049	2.817	2.661	2.550	2.460
4.279	3.422	3.028	2.796	2.640	2.530	2.440
4.260	3.403	3.009	2.776	2.621	2.510	2.420
4.242	3.385	2.991	2.759	2.603	2.490	2.400
4.225	3.369	2.975	2.743	2.587	2.470	2.390
4.210	3.354	2.960	2.728	2.572	2.460	2.370
4.196	3.340	2.947	2.714	2.558	2.450	2.360
4.183	3.328	2.934	2.701	2.545	2.430	2.350
4.171	3.316	2.922	2.690	2.534	2.420	2.330
4.160	3.305	2.911	2.679	2.523	2.410	2.320
4.149	3.295	2.901	2.668	2.512	2.400	2.310
4.139	3.285	2.892	2.659	2.503	2.390	2.300
4.130	3.276	2.883	2.650	2.494	2.380	2.290

4.121	3.267	2.874	2.642	2.485	2.370	2.290
4.113	3.259	2.866	2.634	2.477	2.360	2.280
4.106	3.252	2.859	2.626	2.470	2.360	2.270
4.098	3.245	2.852	2.619	2.463	2.350	2.260
4.091	3.238	2.845	2.612	2.456	2.340	2.260
4.085	3.232	2.839	2.606	2.450	2.340	2.250
4.079	3.226	2.833	2.600	2.443	2.330	2.240
4.073	3.220	2.827	2.594	2.438	2.320	2.240
4.067	3.215	2.822	2.589	2.432	2.320	2.230
4.062	3.209	2.817	2.584	2.427	2.310	2.230
4.057	3.204	2.812	2.579	2.422	2.310	2.220
4.052	3.200	2.807	2.574	2.417	2.300	2.220
4.047	3.195	2.802	2.570	2.413	2.300	2.210
4.043	3.191	2.798	2.565	2.409	2.290	2.210
4.038	3.187	2.794	2.561	2.404	2.290	2.200
4.034	3.183	2.790	2.557	2.400	2.290	2.200
4.030	3.179	2.786	2.553	2.397	2.280	2.200
4.027	3.175	2.783	2.550	2.393	2.280	2.190
4.023	3.172	2.779	2.546	2.389	2.280	2.190
4.020	3.168	2.776	2.543	2.386	2.270	2.180
4.016	3.165	2.773	2.540	2.383	2.270	2.180
4.013	3.162	2.769	2.537	2.380	2.270	2.180
4.010	3.159	2.766	2.534	2.377	2.260	2.180
4.007	3.156	2.764	2.531	2.374	2.260	2.170
4.004	3.153	2.761	2.528	2.371	2.260	2.170
4.001	3.150	2.758	2.525	2.368	2.250	2.170
3.999	3.148	2.756	2.523	2.366	2.250	2.160
3.996	3.145	2.753	2.520	2.363	2.250	2.160
3.993	3.143	2.751	2.518	2.361	2.250	2.160
3.991	3.140	2.748	2.515	2.358	2.240	2.160
3.989	3.138	2.746	2.513	2.356	2.240	2.150
3.986	3.136	2.744	2.511	2.354	2.240	2.150
3.984	3.134	2.742	2.509	2.352	2.240	2.150
3.982	3.132	2.740	2.507	2.350	2.240	2.150
3.980	3.130	2.738	2.505	2.348	2.230	2.150

3.978	3.128	2.736	2.503	2.346	2.230	2.140
3.976	3.126	2.734	2.501	2.344	2.230	2.140
3.974	3.124	2.732	2.499	2.342	2.230	2.140
3.972	3.122	2.730	2.497	2.340	2.230	2.140
3.970	3.120	2.728	2.495	2.338	2.220	2.140
3.969	3.119	2.727	2.494	2.337	2.220	2.130
3.967	3.117	2.725	2.492	2.335	2.220	2.130
3.965	3.115	2.723	2.490	2.333	2.220	2.130
3.964	3.114	2.722	2.489	2.332	2.220	2.130
3.962	3.112	2.720	2.487	2.330	2.220	2.130
3.960	3.111	2.719	2.486	2.329	2.210	2.130
3.959	3.109	2.717	2.484	2.327	2.210	2.120
3.957	3.108	2.716	2.483	2.326	2.210	2.120
3.956	3.107	2.715	2.482	2.325	2.210	2.120
3.955	3.105	2.713	2.480	2.323	2.210	2.120
3.953	3.104	2.712	2.479	2.322	2.210	2.120
3.952	3.103	2.711	2.478	2.321	2.210	2.120
3.951	3.101	2.709	2.477	2.319	2.200	2.120
3.949	3.100	2.708	2.475	2.318	2.200	2.120
3.948	3.099	2.707	2.474	2.317	2.200	2.110
3.947	3.098	2.706	2.473	2.316	2.200	2.110
3.946	3.097	2.705	2.472	2.315	2.200	2.110
3.945	3.095	2.704	2.471	2.313	2.200	2.110
3.943	3.094	2.703	2.470	2.312	2.200	2.110
3.942	3.093	2.701	2.469	2.311	2.200	2.110
3.941	3.092	2.700	2.468	2.310	2.200	2.110
3.940	3.091	2.699	2.467	2.309	2.190	2.110
3.939	3.090	2.698	2.466	2.308	2.190	2.110
3.938	3.089	2.697	2.465	2.307	2.190	2.100
3.937	3.088	2.697	2.464	2.306	2.190	2.100
3.936	3.087	2.696	2.463	2.305	2.190	2.100
3.935	3.086	2.695	2.462	2.304	2.190	2.100
3.934	3.086	2.694	2.461	2.304	2.190	2.100
3.933	3.085	2.693	2.460	2.303	2.190	2.100
3.932	3.084	2.692	2.459	2.302	2.190	2.100

3.932	3.083	2.691	2.458	2.301	2.190	2.100
3.931	3.082	2.690	2.457	2.300	2.190	2.100
3.930	3.081	2.690	2.457	2.299	2.180	2.100
3.929	3.080	2.689	2.456	2.298	2.180	2.100
3.928	3.080	2.688	2.455	2.298	2.180	2.090
3.927	3.079	2.687	2.454	2.297	2.180	2.090
3.927	3.078	2.686	2.454	2.296	2.180	2.090
3.926	3.077	2.686	2.453	2.295	2.180	2.090
3.925	3.077	2.685	2.452	2.295	2.180	2.090
3.924	3.076	2.684	2.451	2.294	2.180	2.090
3.924	3.075	2.684	2.451	2.293	2.180	2.090
3.923	3.074	2.683	2.450	2.293	2.180	2.090
3.922	3.074	2.682	2.449	2.292	2.180	2.090
3.922	3.073	2.682	2.449	2.291	2.180	2.090
3.921	3.072	2.681	2.448	2.291	2.180	2.090
3.920	3.072	2.680	2.447	2.290	2.180	2.090
3.920	3.071	2.680	2.447	2.289	2.170	2.090
3.919	3.071	2.679	2.446	2.289	2.170	2.090
3.918	3.070	2.678	2.445	2.288	2.170	2.080
3.918	3.069	2.678	2.445	2.287	2.170	2.080
3.917	3.069	2.677	2.444	2.287	2.170	2.080
3.916	3.068	2.677	2.444	2.286	2.170	2.080
3.916	3.068	2.676	2.443	2.286	2.170	2.080
3.915	3.067	2.675	2.443	2.285	2.170	2.080
3.915	3.066	2.675	2.442	2.285	2.170	2.080
3.914	3.066	2.674	2.441	2.284	2.170	2.080
3.913	3.065	2.674	2.441	2.283	2.170	2.080
3.913	3.065	2.673	2.440	2.283	2.170	2.080
3.912	3.064	2.673	2.440	2.282	2.170	2.080
3.912	3.064	2.672	2.439	2.282	2.170	2.080
3.911	3.063	2.672	2.439	2.281	2.170	2.080
3.911	3.063	2.671	2.438	2.281	2.170	2.080
3.910	3.062	2.671	2.438	2.280	2.170	2.080
3.910	3.062	2.670	2.437	2.280	2.160	2.080
3.909	3.061	2.670	2.437	2.279	2.160	2.080

3.909	3.061	2.669	2.436	2.279	2.160	2.080
3.908	3.060	2.669	2.436	2.278	2.160	2.080
3.908	3.060	2.668	2.435	2.278	2.160	2.070
3.907	3.059	2.668	2.435	2.278	2.160	2.070
3.907	3.059	2.667	2.435	2.277	2.160	2.070
3.906	3.059	2.667	2.434	2.277	2.160	2.070
3.906	3.058	2.667	2.434	2.276	2.160	2.070
3.906	3.058	2.666	2.433	2.276	2.160	2.070
3.905	3.057	2.666	2.433	2.275	2.160	2.070
3.905	3.057	2.665	2.432	2.275	2.160	2.070
3.904	3.056	2.665	2.432	2.275	2.160	2.070
3.904	3.056	2.665	2.432	2.274	2.160	2.070
3.903	3.056	2.664	2.431	2.274	2.160	2.070
3.903	3.055	2.664	2.431	2.273	2.160	2.070
3.903	3.055	2.663	2.430	2.273	2.160	2.070
3.902	3.054	2.663	2.430	2.273	2.160	2.070
3.902	3.054	2.663	2.430	2.272	2.160	2.070
3.901	3.054	2.662	2.429	2.272	2.160	2.070
3.901	3.053	2.662	2.429	2.271	2.160	2.070
3.901	3.053	2.662	2.429	2.271	2.160	2.070
3.900	3.053	2.661	2.428	2.271	2.160	2.070
3.900	3.052	2.661	2.428	2.270	2.160	2.070
3.900	3.052	2.660	2.428	2.270	2.150	2.070
3.899	3.052	2.660	2.427	2.270	2.150	2.070
3.899	3.051	2.660	2.427	2.269	2.150	2.070
3.898	3.051	2.659	2.426	2.269	2.150	2.070
3.898	3.051	2.659	2.426	2.269	2.150	2.070
3.898	3.050	2.659	2.426	2.268	2.150	2.060
3.897	3.050	2.658	2.426	2.268	2.150	2.060
3.897	3.050	2.658	2.425	2.268	2.150	2.060
3.897	3.049	2.658	2.425	2.267	2.150	2.060
3.896	3.049	2.657	2.425	2.267	2.150	2.060
3.896	3.049	2.657	2.424	2.267	2.150	2.060
3.896	3.048	2.657	2.424	2.266	2.150	2.060
3.896	3.048	2.657	2.424	2.266	2.150	2.060

3.895	3.048	2.656	2.423	2.266	2.150	2.060
3.895	3.047	2.656	2.423	2.266	2.150	2.060
3.895	3.047	2.656	2.423	2.265	2.150	2.060
3.894	3.047	2.655	2.422	2.265	2.150	2.060
3.894	3.046	2.655	2.422	2.265	2.150	2.060
3.894	3.046	2.655	2.422	2.264	2.150	2.060
3.893	3.046	2.655	2.422	2.264	2.150	2.060
3.893	3.046	2.654	2.421	2.264	2.150	2.060
3.893	3.045	2.654	2.421	2.264	2.150	2.060
3.893	3.045	2.654	2.421	2.263	2.150	2.060
3.892	3.045	2.653	2.421	2.263	2.150	2.060
3.892	3.045	2.653	2.420	2.263	2.150	2.060
3.892	3.044	2.653	2.420	2.262	2.150	2.060
3.891	3.044	2.653	2.420	2.262	2.150	2.060
3.891	3.044	2.652	2.419	2.262	2.150	2.060
3.891	3.044	2.652	2.419	2.262	2.150	2.060
3.891	3.043	2.652	2.419	2.261	2.150	2.060
3.890	3.043	2.652	2.419	2.261	2.150	2.060
3.890	3.043	2.651	2.418	2.261	2.150	2.060
3.890	3.043	2.651	2.418	2.261	2.150	2.060
3.890	3.042	2.651	2.418	2.260	2.150	2.060
3.889	3.042	2.651	2.418	2.260	2.150	2.060
3.889	3.042	2.650	2.418	2.260	2.140	2.060
3.889	3.042	2.650	2.417	2.260	2.140	2.060
3.889	3.041	2.650	2.417	2.260	2.140	2.060
3.888	3.041	2.650	2.417	2.259	2.140	2.060