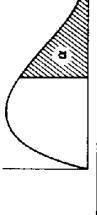
Tabela 2. Distribuição de χ^2



Distribuição de 🗴	
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.0000 .0001 .0003 .0158 .102 .455 1.27 .461 5.94 5.73 7.38 7.38 7.38 7.38 1.02 .000	0.995	0.990	0.975	0.950	0.900	0.750	0,500	0.250	0.100	0.050	0.025	0.010	0.005
.0601 .0606 .103 .211 .575 1.38 2.77 4.61 5.99 7.38 9.21 .415 .216 .352 .184 1.021 2.37 4.11 6.25 7.81 9.25 11.3 .874 .484 .71 1.06 1.92 3.36 6.63 9.24 11.1 12.8 11.3 .877 .484 .184 .220 3.46 6.35 9.04 11.1 16.0 18.3 .166 .217 .486 .535 9.04 11.0 12.8 11.3 .168 .217 .486 .679 .476 6.63 9.24 11.1 16.0 18.5 11.3 18.5 11.0 18.5 11.3 18.5 11.1 16.8 11.1 16.8 11.2 11.1 16.8 11.1 16.8 11.1 16.8 11.2 11.1 18.6 11.2 11.1 16.8 11.1 18.6 11.1 18.6		.0002	0100			Г.	 	1.32	2.71		20.00	F 6.3	7 89
.115 .216 .352 .584 1,021 2.37 4,11 6.25 7,81 9.26 11.1 13.3 .564 .711 1.06 1.92 3.36 6.39 7.78 9.49 11.1 13.3 .564 .724 1.66 1.92 3.36 6.39 7.78 9.49 11.1 13.3 1.24 1.68 2.71 2.83 4.26 6.35 9.04 12.0 14.1 16.0 18.8 11.1 16.8 15.1 12.8 15.1 12.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 16.0 18.8 11.1 18.8 18.9 11.1 18.8 18.9 11.1 18.8 18.9 11.1 18.8 <th>_</th> <th>1000</th> <th>9050.</th> <th></th> <th></th> <th></th> <th></th> <th>2.77</th> <th>19</th> <th></th> <th>38.</th> <th>3 5</th> <th>10.6</th>	_	1000	9050.					2.77	19		38.	3 5	10.6
287 484 711 1.06 1.92 3.36 6.39 7.78 9.49 11.1 13.3 .894 .831 1.15 1.61 2.67 3.45 6.63 9.24 11.1 12.8 15.1 .872 1.24 1.69 2.71 2.83 4.25 6.35 9.04 10.6 14.1 16.0 18.5 2.08 2.71 2.83 4.75 6.35 9.04 12.0 14.1 16.0 18.5 2.08 2.70 3.34 6.77 5.94 10.2 13.4 15.5 17.5 20.1 2.08 2.70 3.34 6.77 6.74 10.2 13.4 10.2 13.4 10.5 10.0 11.7 10.0 10.0 11.2 10.0 11.7 10.0 10.2 13.4 11.7 10.0 11.2 10.0 11.2 10.0 11.1 10.0 11.2 10.0 11.1 10.0 11.1 10.0		.115	.216					1.4	6.25		9.25	13	12.8
.654 .831 1.15 1.61 2.67 4.36 6.63 9.24 11.1 12.8 16.1 .872 1.24 1.64 2.20 3.45 6.35 7.84 10.6 12.6 14.4 16.8 1.24 1.69 2.77 3.49 6.07 7.34 10.2 13.4 16.6 12.6 14.4 16.9 17.5 20.1 2.09 2.70 3.33 4.17 5.90 8.34 11.4 14.7 16.9 19.0 21.7 2.09 2.70 3.32 4.70 5.90 8.34 11.4 14.7 16.9 19.0 21.7 3.05 3.82 4.57 6.30 8.44 11.3 14.8 18.5 21.0 23.3 24.7		.297	48					5.39	7.78			13.3	6.4
872 1.24 1.64 2.20 3.45 6.35 7.84 10.6 12.6 14.4 16.8 1.24 1.69 2.77 2.83 4.25 6.35 9.04 12.0 14.1 16.0 18.5 1.66 2.70 3.33 4.75 5.90 8.34 10.2 13.4 16.0 18.3 20.1 2.66 3.26 3.26 3.34 6.74 9.34 12.5 16.0 18.3 20.5 20.1 2.56 3.82 4.57 5.58 7.58 10.3 13.7 17.3 19.7 21.9 20.7 3.05 3.82 4.57 5.89 7.04 10.2 13.3 17.1 21.1 23.7 21.9 20.7 4.11 5.01 6.23 7.26 8.55 11.0 14.3 18.2 22.3 25.0 27.2 20.1 23.3 26.1 20.1 20.1 20.1 20.1 20.1 20.1		554	.831					6.63	9.24	•	12.8	15.1	16.7
1.24 1.69 2.17 2.83 4.25 6.35 9.04 12.0 14.1 16.0 18.5 2.06 2.78 2.78 5.07 7.34 10.2 13.4 15.5 17.5 20.1 2.06 3.27 3.34 4.87 6.74 9.34 12.5 16.0 18.5 10.7 27.7 3.05 3.27 3.24 4.87 6.74 9.34 12.5 16.0 18.2 20.1 20.1 3.57 4.40 6.23 7.58 10.3 13.7 17.3 19.7 21.9 24.7		.872	1.24		•			28	10.6		4.4	16.8	18.5
1.66 2.18 2.73 3.49 5.07 7.34 10.2 13.4 15.5 17.5 20.1 2.09 2.70 3.33 4.17 5.90 8.34 11.4 14.7 16.9 19.0 21.7 3.05 3.25 3.25 3.26 3.26 1.23 1.24 1.25 16.0 18.3 20.5 21.7 21.7 20.5 21.7<		1.24	4.69					90.6	12.0		16.0	18.5	20.3
2.08 2.70 3.33 4.17 5.90 8.34 11.4 14.7 16.9 19.0 21.7 2.56 3.25 3.34 4.87 6.74 9.34 12.5 16.0 18.3 20.5 23.2 3.05 3.82 4.57 6.58 7.58 10.3 13.7 17.3 19.7 21.0 23.3 26.7 4.11 5.01 6.89 7.04 9.30 12.3 16.0 19.8 27.4 24.7 27.7 4.66 5.63 6.57 7.79 10.2 13.3 17.1 21.1 23.3 26.2 27.4 24.7 27.7 5.80 6.23 7.26 8.31 11.9 16.3 17.2 21.3 26.3 28.4 27.7 27.1 27.2 28.4 27.6 30.2 53.4 30.6 53.4 30.6 53.4 30.6 53.4 30.6 53.4 30.6 23.2 26.3 28.4 30.6		1.65	2.18					10.2	13.4		17.5	20.1	22.0
2.56 3.25 3.94 4.87 6.74 9.34 12.5 16.0 18.3 20.5 23.2 3.05 3.82 4.57 6.58 7.58 10.3 13.7 17.3 19.7 21.9 24.7 4.11 5.01 6.89 7.04 9.30 12.3 16.0 19.8 27.4 24.7 27.7 4.66 5.63 6.23 7.26 8.55 11.0 14.3 17.1 21.1 23.7 24.7 27.7 5.80 6.91 7.26 8.65 11.0 14.3 18.2 22.8 26.3 28.4 32.0 5.80 6.91 7.26 8.67 10.1 12.8 16.3 20.5 24.8 27.6 28.7 30.2 6.41 7.56 8.67 10.1 12.8 16.3 20.5 24.8 27.2 27.2 30.1 30.2 30.2 30.2 30.2 30.2 30.2 30.2 30.2		5.08	2.70			_		4.1.	14.7		19.0	21.7	23.6
3.05 3.82 4.57 5.68 7.58 10.3 13.7 17.3 19.7 21.9 24.7 3.57 4.40 6.23 6.30 8.44 11.3 14.8 18.5 21.0 23.3 26.2 4.11 5.61 6.53 7.79 10.2 13.3 17.1 27.1 27.7 27.7 5.80 6.31 7.26 8.55 11.0 14.3 18.2 22.3 25.0 27.5 30.6 5.80 6.81 7.26 8.55 11.0 14.3 18.2 22.7 27.3 26.0 27.6 30.6 5.80 6.81 7.26 8.65 10.1 12.8 16.3 20.5 24.8 27.6 30.2 23.0 6.41 7.56 8.67 10.1 12.3 16.5 19.3 22.7 27.2 30.1 30.2 30.2 7.63 8.91 10.0 11.7 14.6 18.3 22.7 <t< td=""><th></th><td>2.56</td><td>3.25</td><td></td><td></td><td></td><td></td><td>12.5</td><td>16.0</td><td></td><td>20.5</td><td>23.2</td><td>25.2</td></t<>		2.56	3.25					12.5	16.0		20.5	23.2	25.2
3.57 4.40 5.23 6.30 8.44 11.3 14.8 18.5 21.0 23.3 26.2 4.11 5.61 5.83 7.04 9.30 12.3 16.0 19.8 27.4 24.7 27.7 4.66 5.63 6.57 7.79 10.2 13.3 17.1 21.1 23.7 27.7<		3.05	3.82			_		13.7	17.3		21.9	24.7	26.8
4.11 £01 £89 7.04 9.30 12.3 16.0 19.8 27.4 24.7 27.7 4.66 5.63 6.57 7.79 10.2 13.3 17.1 21.1 23.7 26.1 29.1 5.23 6.23 7.26 8.55 11.0 14.3 18.2 22.3 25.0 27.5 30.6 5.80 6.91 7.36 8.31 11.9 15.3 19.4 23.5 26.3 20.5 30.2 26.3 30.6 53.4 32.0 20.6 27.8 26.3 30.6 53.4 32.0 27.2 24.9 26.3 26.3 26.3 27.6 30.2 26.3 30.6 53.4 32.0 32.0 32.0 30.6 53.4 32.0 32.0 32.0 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2 32.2		3.57	4.40				_	14.8	18.5		23.3	26.2	28.3
4.66 5.63 6.57 7.79 10.2 13.3 17.1 21.1 23.7 26.1 29.1 5.23 6.23 7.26 8.55 11.0 14.3 18.2 22.3 25.0 27.5 30.6 5.80 6.91 7.96 8.31 11.9 15.3 19.4 23.5 26.3 28.4 32.0 27.5 30.6 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 33.6 34.8<		4.11	5.01		_		_	16.0	19.8		24.7	27.7	8
5.23 6.23 7.26 8.55 11.0 14.3 18.2 22.3 25.0 27.5 30.6 5.80 6.91 7.96 8.31 11.9 15.3 19.4 23.5 26.3 28.4 32.0 6.41 7.56 8.67 10.1 12.8 16.3 20.5 24.8 27.6 30.2 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 53.4 32.0 32.2 32.7 30.1 32.9 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.6 35.2 38.9 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.9 36.4 36.9 36.9 36.9<		4.66	5.63		_			17.1	21.1		79.	8	31.3
5.80 6.91 7.96 8.31 11.9 15.3 19.4 23.5 26.3 28.4 32.0 6.41 7.56 8.67 10.1 12.8 16.3 20.5 24.8 27.6 30.2 53.4 7.01 8.23 9.39 10.9 13.7 17.3 21.6 26.0 28.9 31.5 34.8 7.63 8.91 10.1 11.7 14.6 18.3 22.7 27.2 30.1 32.9 34.8 8.50 10.3 11.6 13.2 16.3 20.3 24.9 29.6 32.7 37.6 36.2 8.50 10.3 11.6 13.2 16.3 20.3 24.9 29.6 32.7 36.8 40.5 9.54 11.0 12.3 14.0 17.2 21.3 26.0 30.8 33.9 36.4 40.6 10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.7 <t< td=""><th></th><td>5.23</td><td>6.23</td><td></td><td>_</td><td></td><td></td><td>18.2</td><td>22.3</td><td></td><td>27.5</td><td>30.6</td><td>32.8</td></t<>		5.23	6.23		_			18.2	22.3		27.5	30.6	32.8
6.41 7.56 8.67 10.1 12.8 16.3 20.5 24.8 27.6 30.2 53.4 7.01 8.23 9.39 10.9 13.7 17.3 21.6 26.0 28.9 31.5 34.8 7.63 8.91 10.1 11.7 14.6 18.3 22.7 27.2 30.1 32.9 34.8 8.26 9.59 10.9 12.4 15.5 19.3 22.7 27.2 30.1 32.9 34.8 8.90 10.3 11.6 13.2 16.3 20.3 24.9 29.6 32.7 37.5 38.9 9.54 11.0 12.3 14.0 17.2 21.3 26.0 30.8 33.9 36.8 40.5 10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.9 40.5 10.9 12.4 13.8 15.7 19.0 23.3 24.4 37.7 40.6 <t< td=""><th></th><td>2.80</td><td>6.91</td><td></td><td></td><td></td><td></td><td>19.4</td><td>23.5</td><td></td><td>28.4</td><td>32.0</td><td>8</td></t<>		2.80	6.91					19.4	23.5		28.4	32.0	8
7.01 8.23 9.39 10.9 13.7 17.3 21.6 26.0 28.9 31.5 34.8 7.63 8.91 10.1 11.7 14.6 18.3 22.7 27.2 30.1 32.9 36.2 8.26 9.59 10.9 12.4 15.5 19.3 23.8 28.4 31.4 34.2 37.6 9.54 10.0 12.3 14.0 17.2 21.3 26.0 30.8 32.7 35.5 38.9 10.2 11.7 13.1 14.8 18.1 22.3 26.0 30.8 33.9 36.4 40.5 10.9 12.4 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.9 40.5 10.9 12.4 13.8 15.7 19.0 23.3 24.3 35.4 39.4 43.0 11.5 13.1 14.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 <t< td=""><th></th><td>6.41</td><td>7.56</td><td></td><td>_</td><td></td><td></td><td>20.5</td><td>24.8</td><td></td><td>30.2</td><td>53.4</td><td>35.7</td></t<>		6.41	7.56		_			20.5	24.8		30.2	53.4	35.7
7.63 8.91 10.1 11.7 14.6 18.3 22.7 27.2 30.1 32.9 36.2 8.26 9.59 10.9 12.4 15.5 19.3 23.8 28.4 31.4 34.2 37.6 8.90 10.3 11.6 13.2 16.3 20.3 24.9 29.6 32.7 35.5 38.9 9.54 11.0 12.3 14.0 17.2 21.3 26.0 30.8 33.9 36.8 40.5 10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.9 40.5 10.9 12.4 13.8 15.7 19.0 23.3 28.2 33.1 36.4 43.0 11.5 13.1 14.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 35.4 37.7 40.1 43.5 47.0 12.5 1	_	7.01	8.23			_		21.6	36.0		31.5	34.8	37.2
8.26 9.59 10.9 12.4 15.5 19.3 23.8 28.4 31.4 34.2 37.6 8.90 10.3 11.6 13.2 16.3 20.3 24.9 29.6 32.7 35.5 38.9 9.54 11.0 12.3 14.0 17.2 21.3 26.0 30.8 33.9 36.8 40.5 10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.9 40.5 10.9 12.4 13.8 15.7 19.0 23.3 28.2 33.1 36.4 43.0 11.5 13.4 15.7 19.0 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.3 44.5 48.5 12.9 14.3 22.7 27.3 32.6 37.9 41.3 44.5 48.3 1		.63	8.91					22.7	27.2		32.9	36.2	33.6
8.90 10.3 11.6 13.2 16.3 20.3 24.9 29.6 32.7 35.5 38.9 9.54 11.0 12.3 14.0 17.2 21.3 26.0 30.8 33.9 36.8 40.5 10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.1 41.6 10.9 12.4 13.8 15.7 19.0 23.3 28.2 33.1 36.4 43.0 11.5 13.1 14.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.9 45.6 12.9 14.6 16.2 18.1 27.7 26.3 31.5 36.7 40.1 43.2 47.0 13.6 15.3 16.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3		8.26	9.59					23.8	28.4	•	34.2	37.6	0.0
9.54 11.0 12.3 14.0 17.2 21.3 26.0 30.8 33.9 36.8 40.5 10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.1 41.6 10.9 12.4 13.8 15.7 19.0 23.3 28.2 33.1 36.4 43.0 11.5 13.1 14.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.9 45.6 12.2 13.8 17.3 20.8 25.3 30.4 35.6 38.9 40.1 43.2 47.0 13.6 15.3 16.9 18.1 27.7 27.3 32.6 37.9 41.3 44.5 48.3 14.3 16.0 17.7 19.8 22.7 27.3 33.6 37.9 41.3 44.5 <t< td=""><th></th><td>8.90 8.90</td><td>10.3</td><td></td><td></td><td></td><td></td><td>24.9</td><td>29.6</td><td></td><td>35.5</td><td>38.9</td><td>41.4</td></t<>		8.90 8.90	10.3					24.9	29.6		35.5	38.9	41.4
10.2 11.7 13.1 14.8 18.1 22.3 27.1 32.0 35.2 38.1 41.6 10.9 12.4 13.8 15.7 19.0 23.3 28.2 33.1 36.4 39.4 43.0 11.5 13.1 16.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.9 45.6 12.9 14.6 16.2 18.1 21.7 26.3 31.5 36.7 40.1 43.2 47.0 13.6 15.3 16.9 18.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3 14.3 16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 15.0 16.8 18.5 20.6 24.5 29.3 34.8 40.3 47.0 <t< td=""><th></th><td>Ž,</td><td>11.0</td><td></td><td></td><td></td><td></td><td>26.0</td><td>30.8</td><td></td><td>36.8</td><td>40.5</td><td>42.8</td></t<>		Ž,	11.0					26.0	30.8		36.8	40.5	42.8
10.9 12.4 13.8 15.7 19.0 23.3 28.2 33.1 36.4 39.4 43.0 11.5 13.1 14.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.9 45.6 12.9 14.6 16.2 18.1 21.7 26.3 31.5 36.7 40.1 43.2 47.0 13.6 15.3 16.9 18.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3 14.3 16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 15.0 16.8 18.5 20.6 24.5 29.3 34.8 40.3 47.0 50.9		10.2			-			27.1	32.0		38.1	41.6	4.2
11.5 13.1 14.6 16.5 19.9 24.3 29.3 34.4 37.7 40.6 44.3 12.2 13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.9 45.6 12.9 14.6 16.2 18.1 21.7 26.3 31.5 36.7 40.1 43.2 47.0 13.6 15.3 16.9 18.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3 14.3 16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 15.0 16.8 18.5 20.6 24.5 29.3 34.8 40.3 43.8 47.0 50.9		6.0				_		28.2	33.1	-	39.4	43.0	45.6
13.8 15.4 17.3 20.8 25.3 30.4 35.6 38.9 41.9 45.6 14.6 16.2 18.1 21.7 26.3 31.5 36.7 40.1 43.2 47.0 15.3 16.9 18.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3 16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 16.8 18.5 20.6 24.5 29.3 34.8 40.3 43.8 47.0 50.9		11.5						29.3	34.4		40.6	64.3	46.9
14.6 16.2 18.1 21.7 26.3 31.5 36.7 40.1 43.2 47.0 15.3 16.9 18.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3 16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 16.8 18.5 20.6 24.5 29.3 34.8 40.3 43.8 47.0 50.9		12.2						30.4	35.6	_	41.9	45.6	48.3
15.3 16.9 18.9 22.7 27.3 32.6 37.9 41.3 44.5 48.3 16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 16.8 18.5 20.6 24.5 29.3 34.8 40.3 43.8 47.0 50.9	****	12.9						31.5	36.7		43.2	47.0	9.6
16.0 17.7 19.8 23.6 28.3 33.7 39.1 42.6 45.7 49.6 16.8 18.5 20.6 24.5 29.3 34.8 40.3 43.8 47.0 50.9		13.6						32.6	37.9	_	4.5	48,3	51.0
16.8 18.5 20.6 24.5 29.3 34.8 40.3 43.8 47.0 50.9		14.3						33.7	39.1		45.7	49,6	52.5
		15.0						8.8	€0.3		47.0	50.9	53.7

Para $\varphi > 30$ usar a aproximação: $\chi_{\rm x}^2 = \frac{1}{2} \left[\pm Z_{\alpha} + \sqrt{2\varphi - 1} \right]^2$