

TABELA VII
Valores Críticos da Distribuição da Estatística D_n (Kolmogorov-Smirnov)

Os valores tabelados correspondem aos pontos $D_{n,\alpha}$ tais que: $P(D_n \geq D_{n,\alpha}) = \alpha$.

n	α				
	0.20	0.10	0.05	0.02	0.01
1	0.900	0.95	0.975	0.990	0.995
2	0.684	0.776	0.842	0.900	0.929
3	0.565	0.636	0.708	0.785	0.829
4	0.493	0.565	0.624	0.689	0.734
5	0.447	0.509	0.563	0.627	0.669
6	0.410	0.468	0.519	0.577	0.617
7	0.381	0.436	0.483	0.538	0.576
8	0.358	0.410	0.454	0.407	0.542
9	0.339	0.387	0.430	0.480	0.513
10	0.323	0.369	0.409	0.457	0.489
11	0.308	0.352	0.391	0.437	0.468
12	0.296	0.338	0.375	0.419	0.449
13	0.285	0.325	0.361	0.404	0.432
14	0.275	0.314	0.349	0.390	0.418
15	0.266	0.304	0.338	0.377	0.404
16	0.258	0.295	0.327	0.366	0.392
17	0.250	0.286	0.318	0.355	0.381
18	0.244	0.279	0.309	0.346	0.371
19	0.237	0.271	0.301	0.337	0.361
20	0.232	0.265	0.294	0.329	0.352
21	0.226	0.259	0.287	0.321	0.344
22	0.221	0.253	0.281	0.314	0.337
23	0.216	0.247	0.275	0.307	0.330
24	0.212	0.242	0.269	0.301	0.323
25	0.208	0.238	0.264	0.295	0.317
26	0.204	0.233	0.259	0.290	0.311
27	0.200	0.229	0.254	0.284	0.305
28	0.197	0.225	0.250	0.279	0.300
29	0.193	0.221	0.246	0.275	0.295
30	0.190	0.218	0.242	0.270	0.290
31	0.187	0.214	0.238	0.266	0.285
32	0.184	0.211	0.234	0.262	0.181
33	0.182	0.208	0.231	0.258	0.277
34	0.179	0.205	0.227	0.254	0.273
35	0.177	0.202	0.224	0.251	0.269
36	0.174	0.199	0.221	0.247	0.265
37	0.172	0.196	0.218	0.244	0.262
38	0.170	0.194	0.215	0.241	0.258
39	0.168	0.191	0.213	0.238	0.255
40	0.165	0.189	0.210	0.235	0.252

Para $n > 40$ os valores críticos de D_n podem ser aproximados pelas seguintes expressões:

α				
0.20	0.10	0.05	0.02	0.01
$\frac{1.07}{\sqrt{n}}$	$\frac{1.22}{\sqrt{n}}$	$\frac{1.36}{\sqrt{n}}$	$\frac{1.52}{\sqrt{n}}$	$\frac{1.63}{\sqrt{n}}$

**QUANTIS DA ESTATÍSTICA DE KOLMOGOROV-SMIRNOV
PARA AMOSTRAS DE DIMENSÕES DIFERENTES**

		<i>Teste unilateral</i>		<i>Teste bilateral</i>		<i>p = ,90</i>	<i>,95</i>	<i>,975</i>	<i>,99</i>	<i>,995</i>	<i>,999</i>
<i>N₁</i>	<i>N₂</i>	<i>p = ,90</i>	<i>,95</i>	<i>,95</i>	<i>,99</i>	<i>,995</i>	<i>,99</i>	<i>,995</i>	<i>,999</i>	<i>,9995</i>	<i>,9999</i>
<i>N₁ = 1</i>	<i>N₂ = 9</i>	17/18	31/32	31/32	33/34	33/35	33/36	33/37	33/38	33/39	33/40
		9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10	9/10
<i>N₁ = 2</i>	<i>N₂ = 3</i>	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6	5/6
		4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5
<i>N₁ = 3</i>	<i>N₂ = 4</i>	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
		2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
<i>N₁ = 4</i>	<i>N₂ = 5</i>	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8
		7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9
<i>N₁ = 5</i>	<i>N₂ = 6</i>	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20
		7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12
<i>N₁ = 6</i>	<i>N₂ = 7</i>	23/42	23/42	23/42	23/42	23/42	23/42	23/42	23/42	23/42	23/42
		8/12	8/12	8/12	8/12	8/12	8/12	8/12	8/12	8/12	8/12
<i>N₁ = 7</i>	<i>N₂ = 8</i>	31/63	31/63	31/63	31/63	31/63	31/63	31/63	31/63	31/63	31/63
		9/14	9/14	9/14	9/14	9/14	9/14	9/14	9/14	9/14	9/14
<i>N₁ = 8</i>	<i>N₂ = 9</i>	19/40	19/40	19/40	19/40	19/40	19/40	19/40	19/40	19/40	19/40
		10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16	10/16
<i>N₁ = 9</i>	<i>N₂ = 10</i>	21/40	21/40	21/40	21/40	21/40	21/40	21/40	21/40	21/40	21/40
		12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16	12/16
<i>N₁ = 10</i>	<i>N₂ = 15</i>	23/45	23/45	23/45	23/45	23/45	23/45	23/45	23/45	23/45	23/45
		15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20
<i>N₁ = 12</i>	<i>N₂ = 15</i>	23/60	23/60	23/60	23/60	23/60	23/60	23/60	23/60	23/60	23/60
		16/30	16/30	16/30	16/30	16/30	16/30	16/30	16/30	16/30	16/30
<i>N₁ = 15</i>	<i>N₂ = 20</i>	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80
		20/30	20/30	20/30	20/30	20/30	20/30	20/30	20/30	20/30	20/30
<i>N₁ = 16</i>	<i>N₂ = 20</i>	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80
<i>N₁ = 5</i>	<i>N₂ = 6</i>	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5	3/5
		2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
<i>N₁ = 6</i>	<i>N₂ = 7</i>	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12
		7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12
<i>N₁ = 7</i>	<i>N₂ = 8</i>	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20
		7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12
<i>N₁ = 8</i>	<i>N₂ = 9</i>	13/20	13/20	13/20	13/20	13/20	13/20	13/20	13/20	13/20	13/20
		7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12
<i>N₁ = 9</i>	<i>N₂ = 9</i>	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20
		9/16	9/16	9/16	9/16	9/16	9/16	9/16	9/16	9/16	9/16
<i>N₁ = 10</i>	<i>N₂ = 12</i>	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20
		7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12
<i>N₁ = 12</i>	<i>N₂ = 16</i>	11/16	11/16	11/16	11/16	11/16	11/16	11/16	11/16	11/16	11/16
		5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
<i>N₁ = 16</i>	<i>N₂ = 20</i>	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80	27/80
		20/30	20/30	20/30	20/30	20/30	20/30	20/30	20/30	20/30	20/30
<i>N₁ = 20</i>	<i>N₂ = 20</i>	29/35	29/35	29/35	29/35	29/35	29/35	29/35	29/35	29/35	29/35
		17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20	17/20
<i>N₁ = 24</i>	<i>N₂ = 24</i>	11/18	11/18	11/18	11/18	11/18	11/18	11/18	11/18	11/18	11/18
		7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12	7/12

<i>N₁ = 5</i>	<i>N₂ = 6</i>	<i>N₁ = 6</i>	<i>N₂ = 7</i>	<i>p = ,90</i>	<i>,95</i>	<i>,975</i>	<i>,99</i>	<i>,995</i>	<i>,999</i>
				<i>1,07</i> $\sqrt{\frac{m+n}{mn}}$	<i>1,22</i> $\sqrt{\frac{m+n}{mn}}$	<i>1,36</i> $\sqrt{\frac{m+n}{mn}}$	<i>1,52</i> $\sqrt{\frac{m+n}{mn}}$	<i>1,63</i> $\sqrt{\frac{m+n}{mn}}$	<i>,999</i>
5	6	6	7	4/5	4/5	4/5	4/5	4/5	4/5
6	7	7	8	5/6	5/6	5/6	5/6	5/6	5/6
7	8	8	9	5/9	5/9	5/9	5/9	5/9	5/9
8	9	9	10	5/10	5/10	5/10	5/10	5/10	5/10
9	10	10	11	5/11	5/11	5/11	5/11	5/11	5/11
10	11	11	12	5/12	5/12	5/12	5/12	5/12	5/12
11	12	12	13	5/13	5/13	5/13	5/13	5/13	5/13
12	13	13	14	5/14	5/14	5/14	5/14	5/14	5/14
13	14	14	15	5/15	5/15	5/15	5/15	5/15	5/15
14	15	15	16	5/16	5/16	5/16	5/16	5/16	5/16
15	16	16	17	5/17	5/17	5/17	5/17	5/17	5/17
16	17	17	18	5/18	5/18	5/18	5/18	5/18	5/18
17	18	18	19	5/19	5/19	5/19	5/19	5/19	5/19
18	19	19	20	5/20	5/20	5/20	5/20	5/20	5/20
19	20	20	21	5/21	5/21	5/21	5/21	5/21	5/21
20	21	21	22	5/22	5/22	5/22	5/22	5/22	5/22

QUANTIS DA ESTATÍSTICA DE KOLMOGOROV-SMIRNOV
PARA DUAS AMOSTRAS DE IGUAL DIMENSÃO

<i>Teste unilateral</i>					<i>Teste unilateral</i>						
<i>p = ,90 ,95 ,975 ,99 ,995</i>					<i>p = ,90 ,95 ,975 ,99 ,995</i>						
<i>Teste bilateral</i>					<i>Teste bilateral</i>						
<i>p = ,80 ,90 ,95 ,98 ,99</i>					<i>p = ,80 ,90 ,95 ,98 ,99</i>						
<i>n</i>	2/3	2/3			<i>n</i>	6/20	7/20	8/20	9/20	10/20	
4	3/4	3/4	3/4			21	6/21	7/21	8/21	9/21	10/21
5	3/5	3/5	4/5	4/5		22	7/22	8/22	8/22	10/22	10/22
6	3/6	4/6	4/6	5/6		23	7/23	8/23	9/23	10/23	10/23
7	4/7	4,7	5/7	5/7		24	7/24	8/24	9/24	10/24	11/24
8	4/8	4/8	5/8	5/8		25	7/25	8/25	9/25	10/25	11/25
9	4/9	5/9	5/9	6/9		26	7/26	8/26	9/26	10/26	11/26
10	4/10	5/10	6/10	6/10		27	7/27	8/27	9/27	11/27	11/27
11	5/11	5/11	6/11	7/11		28	8/28	9/28	10/28	11/28	12/28
12	5/12	5/12	6/12	7/12		29	8/29	9/29	10/29	11/29	12/29
13	5/13	6/13	6/13	7/13		30	8/30	9/30	10/30	11/30	12/30
14	5/14	6/14	7/14	7/14		31	8/31	9/31	10/31	11/31	12/31
15	5/15	6/15	7/15	8/15		32	8/32	9/32	10/32	12/32	12/32
16	6/16	6/16	7/16	8/16		34	8/34	10/34	11/34	12/34	13/34
17	6/17	7/17	7/17	8/17		36	9/36	10/36	11/36	12/36	13/36
18	6/18	7/18	8/18	9/18		38	9/38	10/38	11/38	13/38	14/38
19	6/19	7/19	8/19	9/19		40	9/40	10/40	12/40	13/40	14/40
Aproximação para <i>n</i> > 40:					$\frac{1,52}{\sqrt{n}}$	$\frac{1,73}{\sqrt{n}}$	$\frac{1,92}{\sqrt{n}}$	$\frac{2,15}{\sqrt{n}}$	$\frac{2,30}{\sqrt{n}}$		