

Table VII Critical Values for the Sign Test

$n \backslash \alpha$		r_{α}^*				$n \backslash \alpha$		r_{α}^*			
		0.10 0.05	0.05 0.025	0.01 0.005	Two-sided tests One-sided tests			0.10 0.05	0.05 0.025	0.01 0.005	Two-sided tests One-sided tests
5		0				23	7	6	4		
6		0	0			24	7	6	5		
7		0	0			25	7	7	5		
8		1	0	0		26	8	7	6		
9		1	1	0		27	8	7	6		
10		1	1	0		28	9	8	6		
11		2	1	0		29	9	8	7		
12		2	2	1		30	10	9	7		
13		3	2	1		31	10	9	7		
14		3	2	1		32	10	9	8		
15		3	3	2		33	11	10	8		
16		4	3	2		34	11	10	9		
17		4	4	2		35	12	11	9		
18		5	4	3		36	12	11	9		
19		5	4	3		37	13	12	10		
20		5	5	3		38	13	12	10		
21		6	5	4		39	13	12	11		
22		6	5	4		40	14	13	11		

Table VIII Critical Values for the Wilcoxon Signed-Rank Test

$n^* \backslash \alpha$		w_{α}^*				
		0.10 0.05	0.05 0.025	0.02 0.01	0.01 0.005	Two-sided tests One-sided tests
4						
5		0				
6		2	0			
7		3	2	0		
8		5	3	1	0	
9		8	5	3	1	
10		10	8	5	3	
11		13	10	7	5	
12		17	13	9	7	
13		21	17	12	9	
14		25	21	15	12	
15		30	25	19	15	
16		35	29	23	19	
17		41	34	27	23	
18		47	40	32	27	
19		53	46	37	32	
20		60	52	43	37	
21		67	58	49	42	
22		75	65	55	48	
23		83	73	62	54	
24		91	81	69	61	
25		100	89	76	68	

*If $n > 25$, W^+ (or W^-) is approximately normally distributed with mean $n(n + 1)/4$ and variance $n(n + 1)(2n + 1)/24$.