

# V-1 by Intervals

(The numbers indicate the 1/2 steps)

Ted Greene, 1992-11-24

43 x 4 = 172 presumed total. Actual total = 165. Why?!???

Total from each section: **1)** 45 + **2)** 36 + **3)** 28 + **4)** 21 + **5)** 15 + **6)** 10 + **7)** 6 + **8)** 3 + **9)** 1 = 165

**1)**

111      112      113      114      115      116      117      118      119

**m<sup>Δ</sup>9no5**    **Δ<sup>9</sup>no5**    **7/11noR**    **7/6no5**    **Δ<sup>9</sup><sup>b</sup>5no3**    **(7)b9/11**    **Δ<sup>13</sup>no3,5**  
 121      122      123      124      125      126      127      128

**Δ<sup>7</sup>#9**      **7#11no3**    **13b9**      **m<sup>Δ</sup>7**      **13b9#11**    **7b9no3**  
 131      132      133      134      135      136      137

**Δ<sup>7</sup>#11**      **13noR,5**    **Δ<sup>7</sup>**      **Δ<sup>7</sup>+**      **Δ<sup>7</sup>/6**  
 141      142      143      144      145      146

(2 forms)  
**13#9**      **7/11**      **7/11b9**    **/#11**  
 151      152      153      154      155

**Δ<sup>7</sup>#11**      **7#9**      **m6/9**  
 161      162      163      164

**Δ<sup>7</sup>#9**      **m9**  
 171      172      173

**m<sup>Δ</sup>9no5**  
 181      182

191

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*V-1 by Intervals – Ted Greene, p.2*

2)

	$\Delta 13_{no3,5}$	$7b9_{no5}$	$\Delta 7/6$	$/\#11$	$m6/9$	$m9$	$m\Delta 9_{no5}$
211	212	213	214	215	216	217	218

$m9$	$9$	$/9$	$7+$	$m/11$	$9$	$\Delta 9_{no5}$
221	222	223	224	225	226	227

$7\#9$	$m7/11$	$m7b5$	$6$	$/9$	$7/11_{noR}$
231	232	233	234	235	236

	(2 forms)				
$7/11$	$7b5$	$7$	$7+$	$7/6^6_{no5}$	
241	242	243	244	245	

$13$	$m7/11$	$m/11$	$\Delta 9^7_{no3}$
251	252	253	254

$7\#11_{no3}$	$9$	$(7)b9/11$
261	262	263

$\Delta 9_{no5}$	$\Delta 13_{no3,5}$
271	272

281

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*V-1 by Intervals – Ted Greene, p.3*

3)

	(7)/11b9	13b9#11	Δ7+	7/11b9	7#9	Δ7#9
311	312	313	314	315	316	317

m6/9	m/11	6	7	m7/11	7#11no3
321	322	323	324	325	326

		(4 forms)			
7/11b9	7	7b9	m7b5	13b9	
331	332	333	334	335	

Δ7	m7b5	6	mΔ7
341	342	343	344

13b9noR,5	/9	13b9#11
351	352	353

A7noR/D	7b9no5
361	362

371

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*V-1 by Intervals – Ted Greene, p.4*

4)

	$\Delta 9_{no3}$	$m\Delta 7$	$\Delta 7$	$7/11$	$\Delta 7\#11$
411	412	413	414	415	416

			(2 forms)		
$\#11$	$7+$	$m7b5$	$7b5$	$13$	
421	422	423	424	425	

$\Delta 7+$	$6$	$7$	$\Delta 7$		
431	432	433	434		

$m\Delta 7$	$7+$	$\Delta 7+$			
441	442	443			

$7/6_{no5}$	$\Delta 7/6$				
451	452				

461

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5)

				(2 forms)	
	$7/6^R_{no5}$	$13b9$	$13$	$13\#9$	
511	512	513	514	515	

$\Delta 7/6$	$/9$	$m7/11$	$7/11$		
521	522	523	524		

$13b9\#11$	$m/11$	$7/11b9$			
531	532	533			

$\Delta 9_{no3}$	$\#11$				
541	542				

551

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*V-1 by Intervals – Ted Greene, p.5*

**6)**

	A7noR/D	7#11no3	^7#11
611	612	613	614

7b9no5	9	7#9
621	622	623

(7)b9/11	m6/9
631	632

641

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**7)**

	^9no5	^7#9
711	712	713

^13no3,5	m9
721	722

731

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**8)**

	m^9no5
811	812

821

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**9)**

911

*V-1 by Intervals – Ted Greene, p.6*

A note from James Hober:

Ted wrote “ $43 \times 4 = 172$  presumed total. Actual total = 165. Why?!????”

I answered that question in my chapter *The Mathematics of Four-Note Chords and Beyond*.

[https://www.tedgreene.com/images/lessons/v\\_system/15\\_The\\_Mathematics\\_of\\_Four-Note\\_Chords-and-Beyond.pdf](https://www.tedgreene.com/images/lessons/v_system/15_The_Mathematics_of_Four-Note_Chords-and-Beyond.pdf)

The answer is because of the symmetry of the diminished 7 chord has just a single inversion, not four, and the dominant 7b5 and dominant 13b9 chords each have just two inversions, not four. So,  $172 - 3 - 2 - 2 = 165$ .

If Ted were alive today he would say, “Of course! Of course!” But in 1992 he was puzzled. Am I smarter than Ted? No, but I did figure some things out about his V-System that he missed back then.

~ James

