diam.	girth	Aut.	connect.	LCF	Table of simple cubic graphs - Wikipe names	pictures
5	3	32	1		Edge list 0–1, 0–6, 0–9, 1–2, 1–5, 2–3, 2–4, 3–4, 3–5, 4–5, 6–7, 6–8, 7–8, 7–9, 8–9	10 vertices and 15 edges
4	3	4	2	[4, 2, 3, -2, -4, -3, 2, 2, -2, -2]	10.01	10
3	3	8	2	[2, -3, -2, 2, 2; -]	10.02	8 9 2
3	3	16	2	[-2, -2, 3, 3, 3; -]		

					10.03	3 9 8
4	3	16	2	$[2, 2, -2, -2, 5]^2$	10.04	9 10 2
3	3	2	3	$ \begin{bmatrix} 2, 3, -2, 5, -3 \end{bmatrix}^{2} \\ \begin{bmatrix} 3, -2, 4, -3, 4, 2, \\ -4, -2, -4, 2 \end{bmatrix} $	10.05	
https://en.v	3 vikipedia.c	12	3 lable_of_simple	[2, -4, -2, 5, 2, 4, -2, 4, 5, -4]		7/43

9/18/2017					Table of simple cubic graphs - Wikipe	uia
					10.06	10 vertices and 15 edges
3	3	2	3	[5,3,5,-4,-3,5, 2,5,-2,4] [-4,2,5,-2,4,4, 4,5,-4,-4] [-3,2,4,-2,4,4, -4,3,-4,-4]	10.07	10 vertices and 15 edges
3	3	4	3	[-4, 3, 3, 5, -3, -3, 4, 2, 5, -2] [3, -4, -3, -3, 2, 3, -2, 4, -3, 3]	10.08	
3	3	6	3	[3, -3, 5, -3, 2, 4, -2, 5, 3, -4]		

					10.09	
3	3	4	3	[2,3,-2,3,-3; -] [-4,4,2,5,-2] ²	10.10	7 8 9 9
3	3	6	3	[5, -2, 2, 4, -2, 5, 2, -4, -2, 2]	10.11	
3	3	8	3	[2,5,-2,5,5] ² [2,4,-2,3,4;-]		9/43

					10.12	10 vertices and 15 edges
3	4	48	3	[5, -3, -3, 3, 3] ²	10.13	
3	4	8	4	$ \begin{bmatrix} 5, -4, 4, -4, 4 \end{bmatrix}^{2} \\ [5, -4, -3, 3, 4, 5, -3, 4, -4, 3] $	10.14	Yutsis graph of the 15j-symbol of the third kind.
3	4	4	4	[5, -4, 4, 5, 5] ² [-3, 4, -3, 3, 4; -] [4, -3, 4, 4, -4; -]		

9/18/2017				[-4, 3, 5, 5, -3, 4, 4, 5, 5, -4]	10.15	Yutsis graph of the 15j-symbol of the fourth kind.
3	4	20	4	$ \begin{bmatrix} 5 \end{bmatrix}^{10} \\ [-3, 3]^{5} \\ [5, 5, -3, 5, 3]^{2} $	10.16	Yutsis graph of the 15j-symbol of the first kind.
3	4	20	4	$[-4, 4, -3, 5, 3]^2$	10.17 G _{5,2}	Yutsis graph of the 15j-symbol of the second kind.
2	5	120	4		Petersen graph	

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	10.18	3 7 10 6
		Yutsis graph of the 15j-symbol of the fifth kind.

12 vertices