

# Appendix C

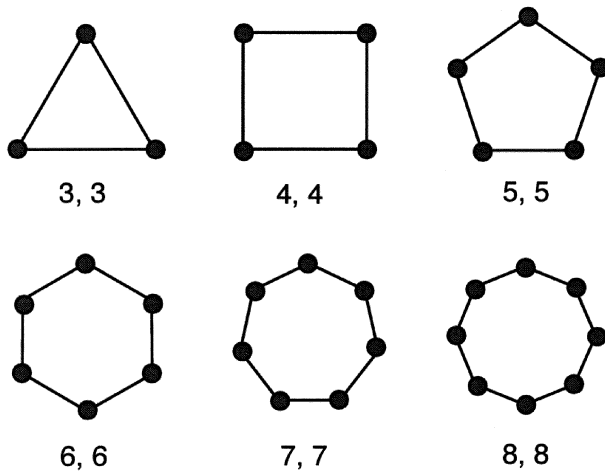
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## Atlas of Graphs of Kinematic Chains

This appendix provides an atlas of graphs of kinematic chains having up to three independent loops and eight links.

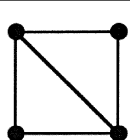
**Table C.1** Graphs Having One Independent Loop: Three to Eight Vertices.

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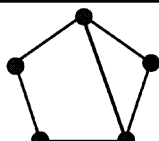


**Table C.2** Graphs Having Two Independent Loops: Four to Eight Vertices.

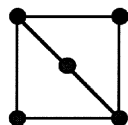
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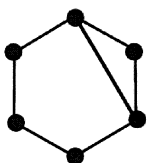
4, 5



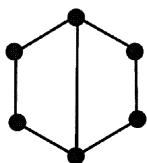
5, 6 (a)



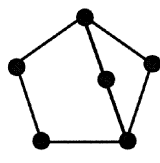
5, 6 (b)



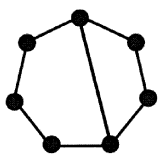
6, 7 (a)



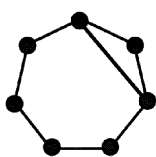
6, 7 (b)



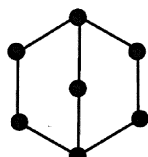
6, 7 (c)



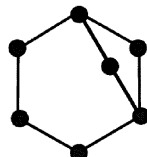
7, 8 (a)



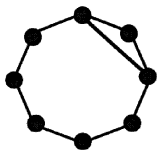
7, 8 (b)



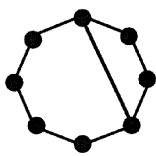
7, 8 (c)



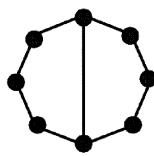
7, 8 (d)



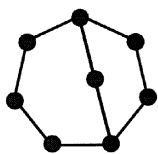
8, 9 (a)



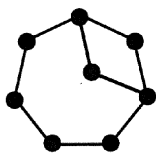
8, 9 (b)



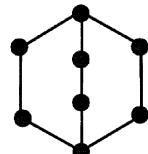
8, 9 (c)



8, 9 (d)



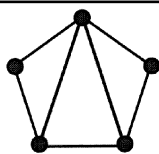
8, 9 (e)



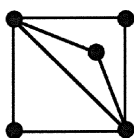
8, 9 (f)

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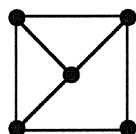
**Table C.3** Graphs Having Three Independent Loops: Five to Six Vertices.



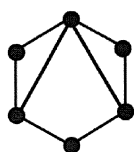
5, 7 (a)



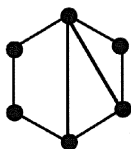
5, 7 (b)



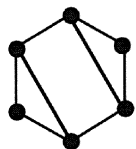
5, 7 (c)



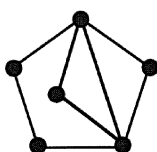
6, 8 (a)



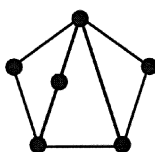
6, 8 (b)



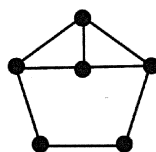
6, 8 (c)



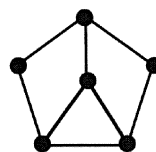
6, 8 (d)



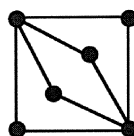
6, 8 (e)



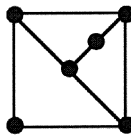
6, 8 (f)



6, 8 (g)

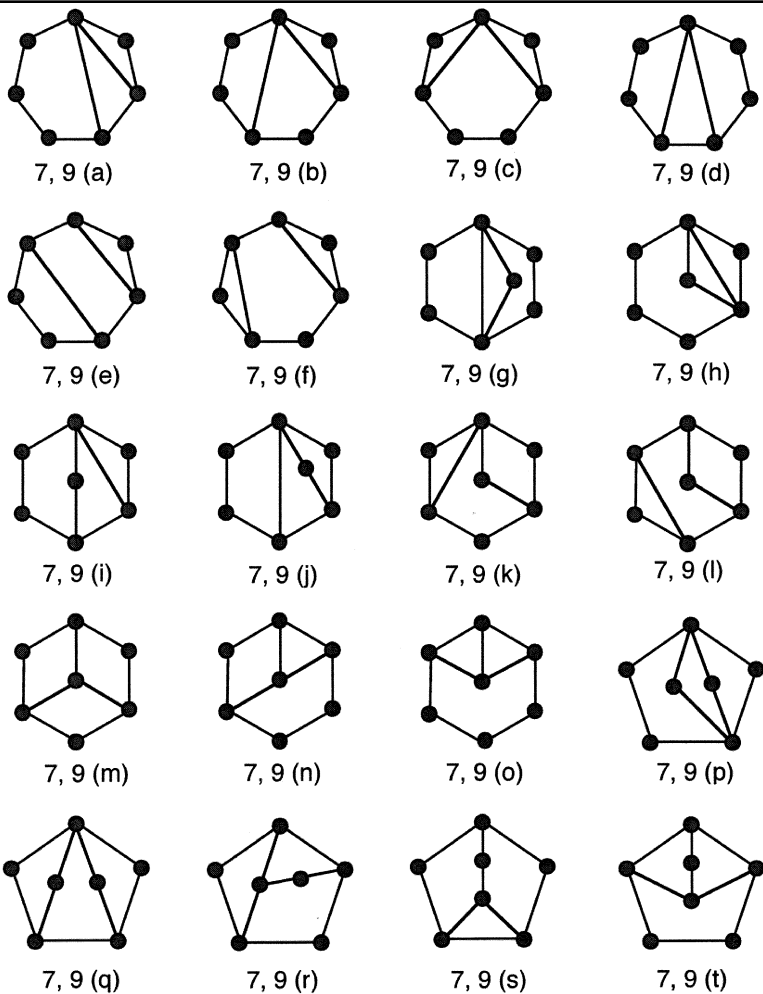


6, 8 (h)

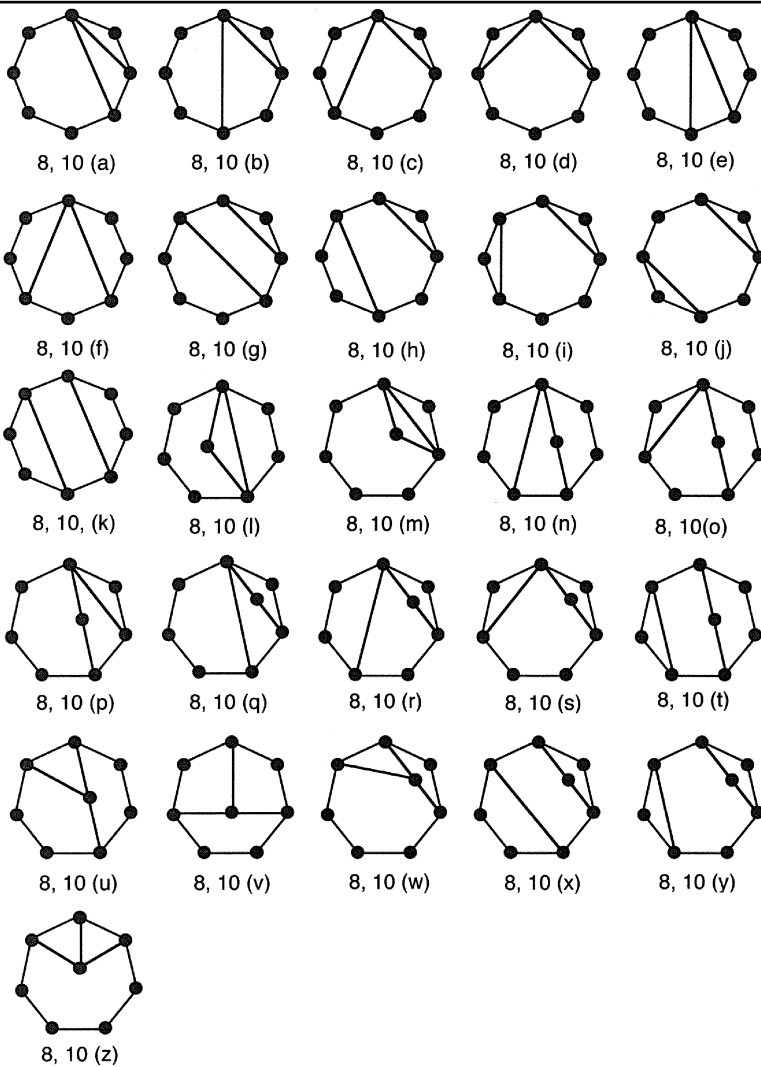


6, 8 (i)

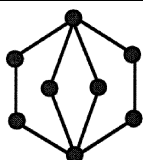
**Table C.4** Graphs Having Three Independent Loops: Seven Vertices.



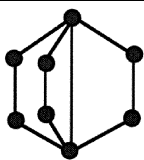
**Table C.5** Graphs Having Three Independent Loops: Eight Vertices — Part 1.



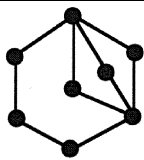
**Table C.6** Graphs Having Three Independent Loops: Eight Vertices — Part 2.



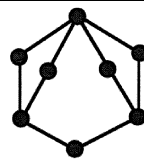
8, 10 (a)



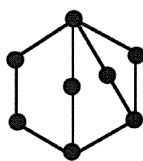
8, 10 (b)



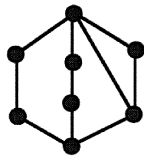
8, 10 (c)



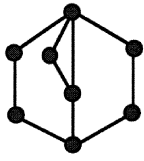
8, 10 (d)



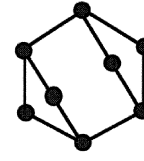
8, 10 (e)



8, 10 (f)



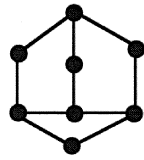
8, 10 (g)



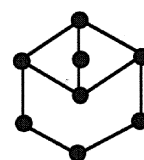
8, 10 (h)



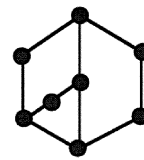
8, 10 (i)



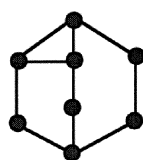
8, 10 (j)



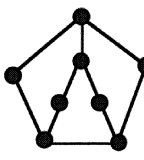
8, 10 (k)



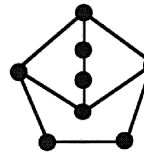
8, 10 (l)



8, 10 (m)



8, 10 (n)



8, 10 (o)