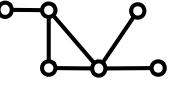
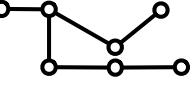
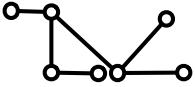
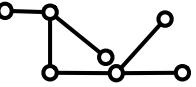
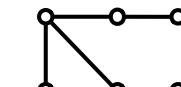
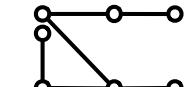
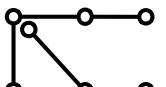
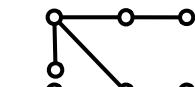
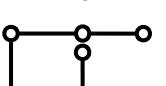
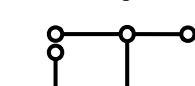
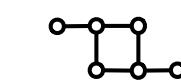
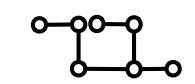
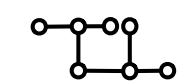
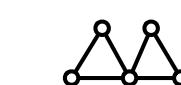
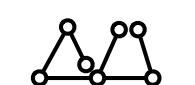
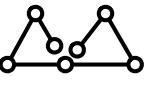
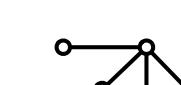
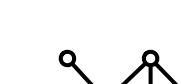
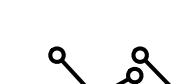
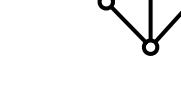
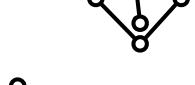
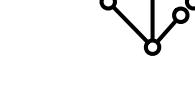


Modules for six-edge trees

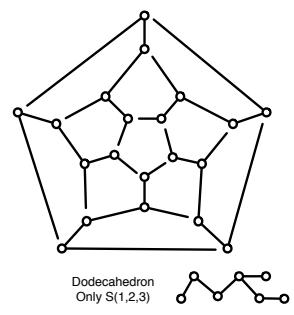
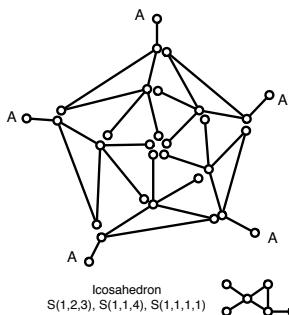
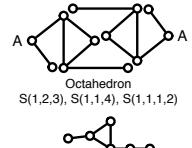
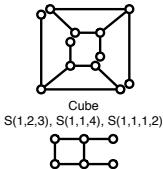
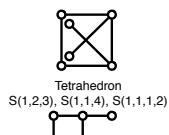
The edge sets of all Platonic and Archimedean solids,

all regular and Archimedean or semiregular tilings are decomposable by $S(1,2,3)$.

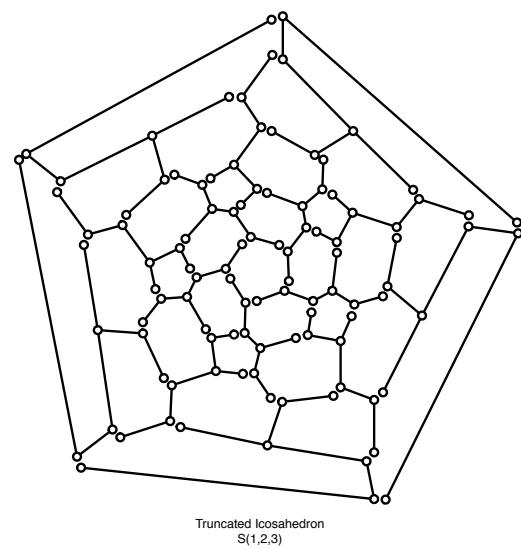
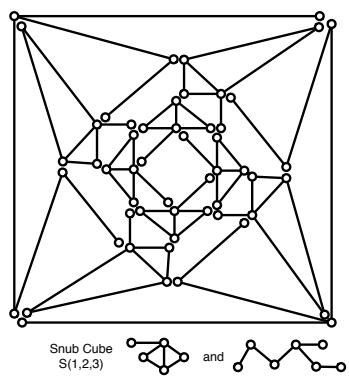
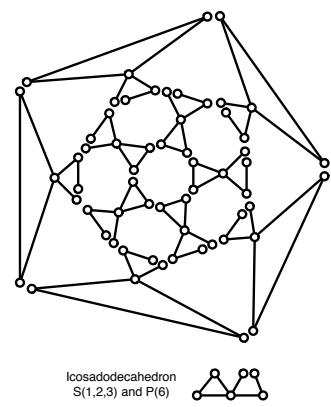
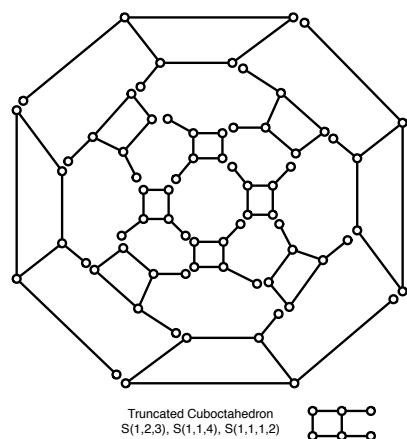
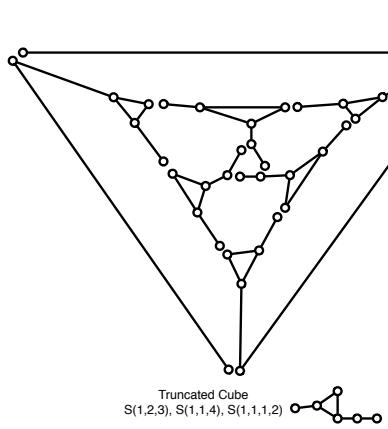
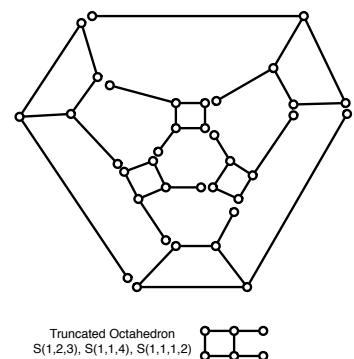
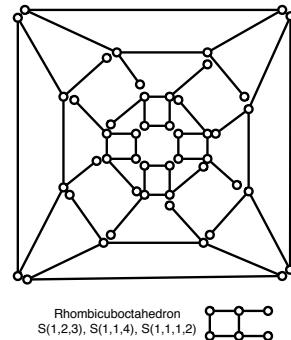
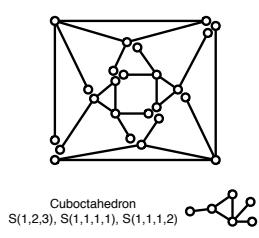
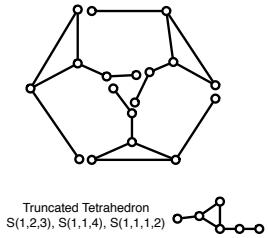
These diagrams demonstrate decomposition by $S(1,2,3)$, but decompositions by other trees are possible for some of the polyhedra or tilings.

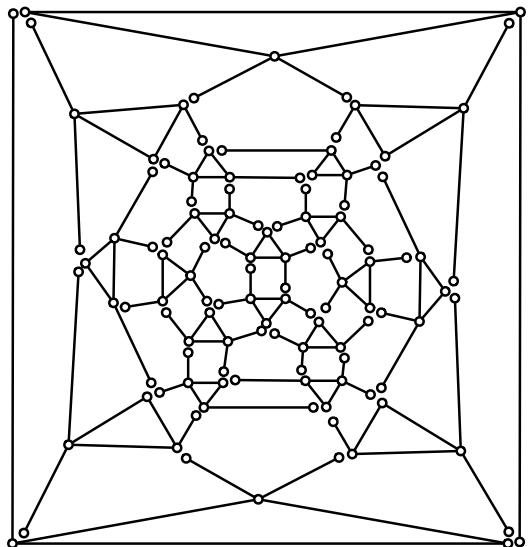
Type	$S(1,2,3)$	$S(1,1,4)$	$S(1,1,1,2)$	$S(2,2,2)$	$S(1,1,1,1)$	$P(6)$
						NO
						NO
						NO
		NO				NO
		NO				
						
						NO
						NO
		NO				NO
						NO
						NO
						NO

Platonic Solids

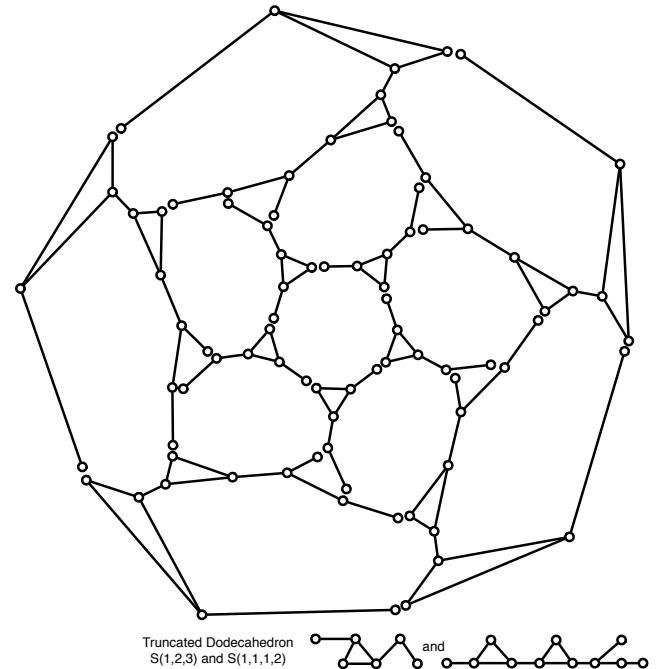


Archimedean Solids

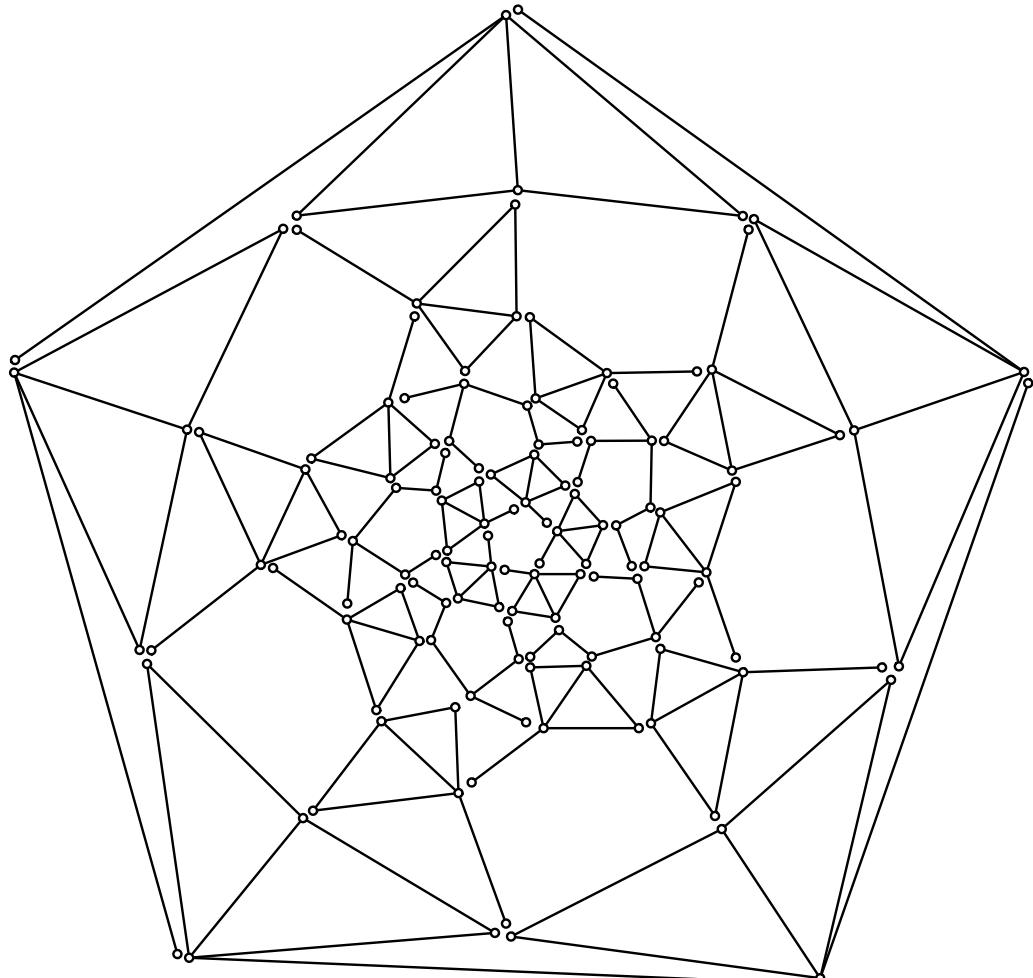




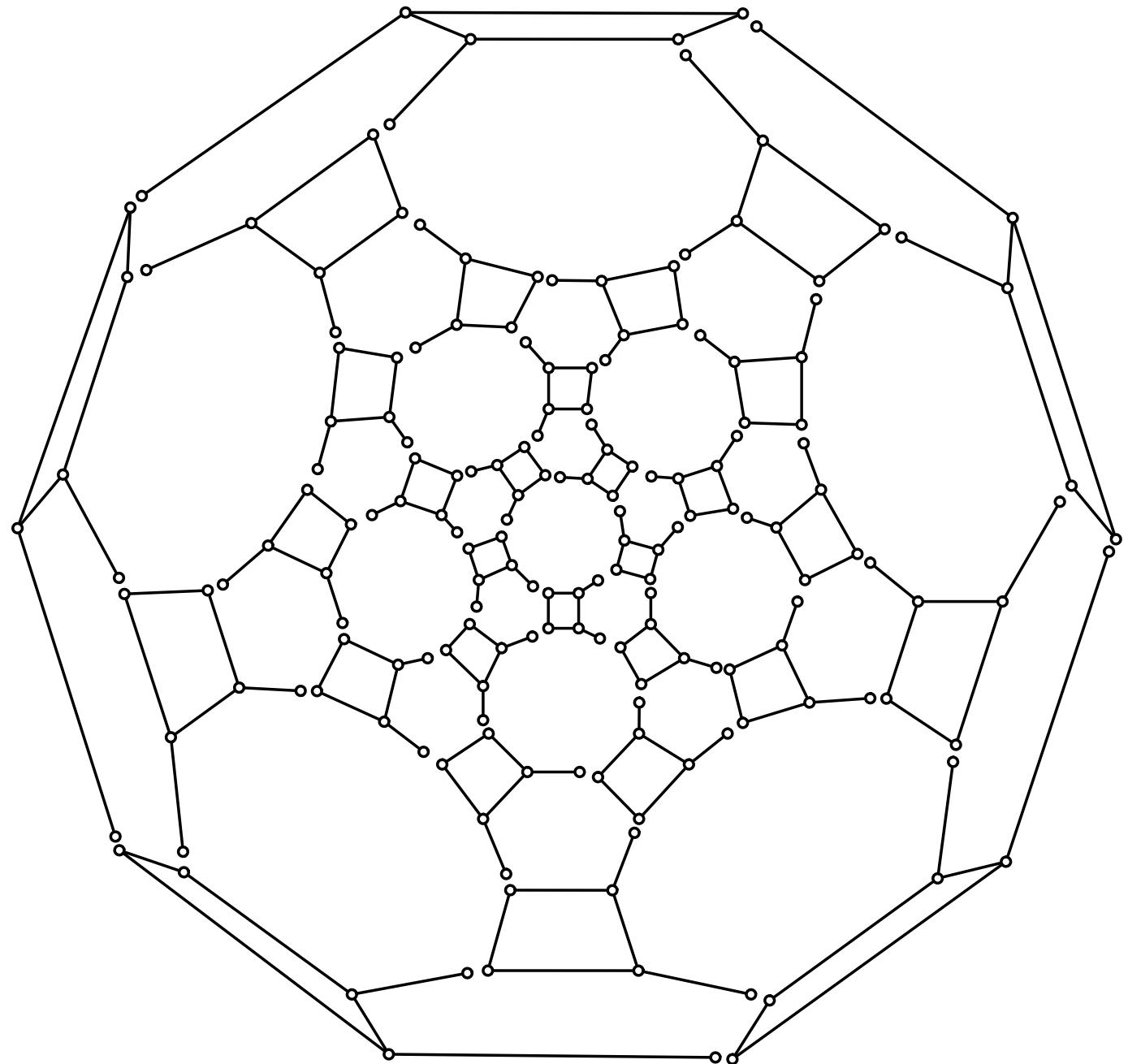
Rhombicosadodecahedron
 $S(1,2,3)$, $S(1,1,1,1)$, $S(1,1,1,2)$



Truncated Dodecahedron
 $S(1,2,3)$ and $S(1,1,1,2)$



Snub Dodecahedron
 $S(1,2,3)$ and

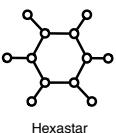
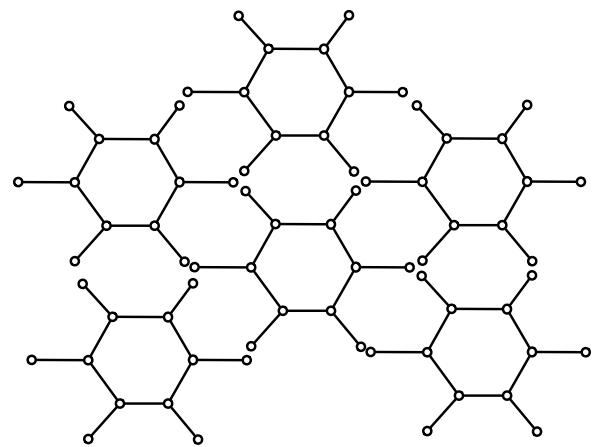
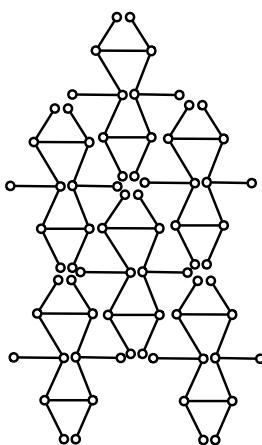
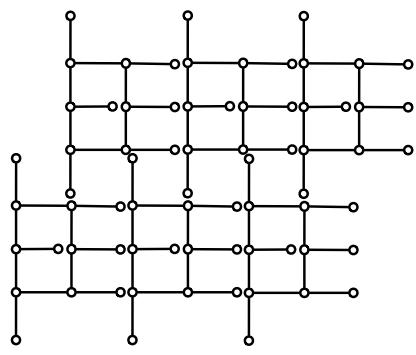
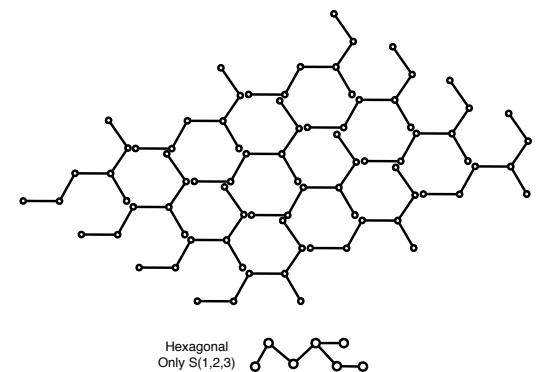
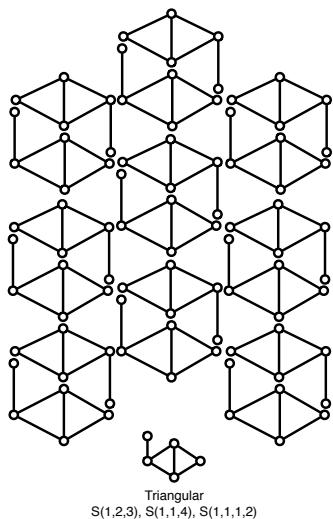
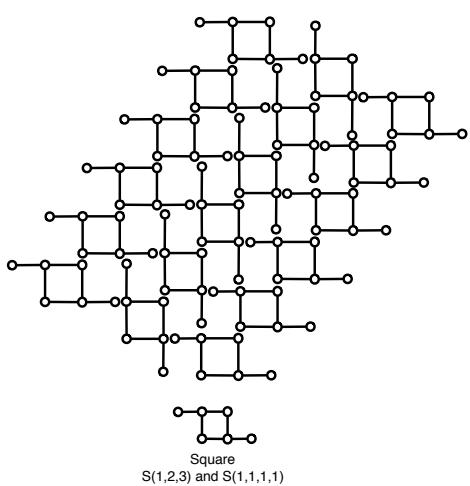


Truncated Icosadodecahedron
 $S(1,2,3), S(1,1,4), S(1,1,1,2)$



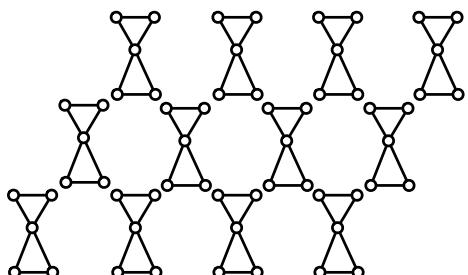
Regular Tessellations

(No maximum decomposing figure since patterns have translation symmetries)

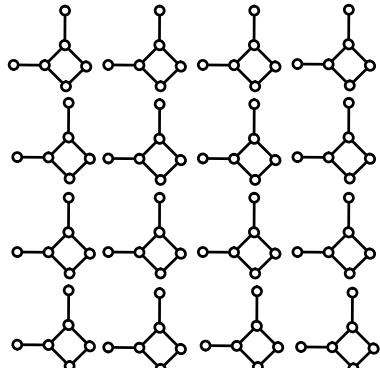


Hexastar

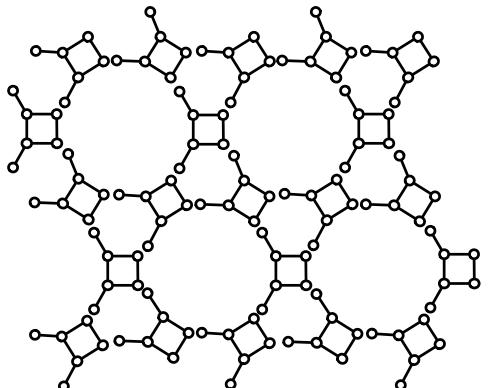
Archimedean or Semiregular Tessellations
 (No maximum decomposing figure since patterns have translation symmetries)



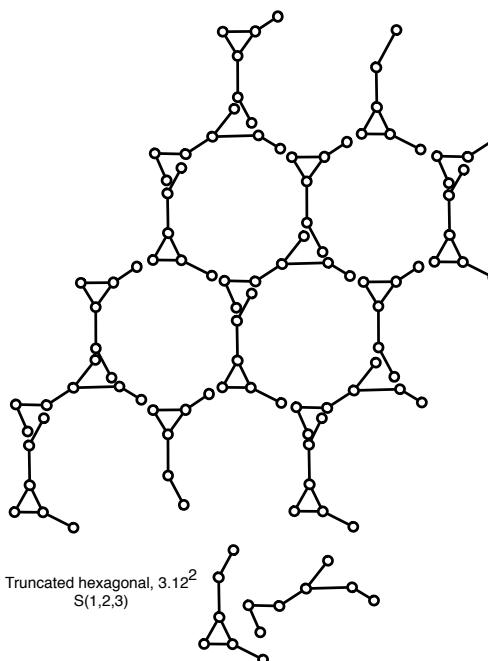
Trihexagonal, $3.6.3.6$
 $S(1,2,3)$ and $P(6)$



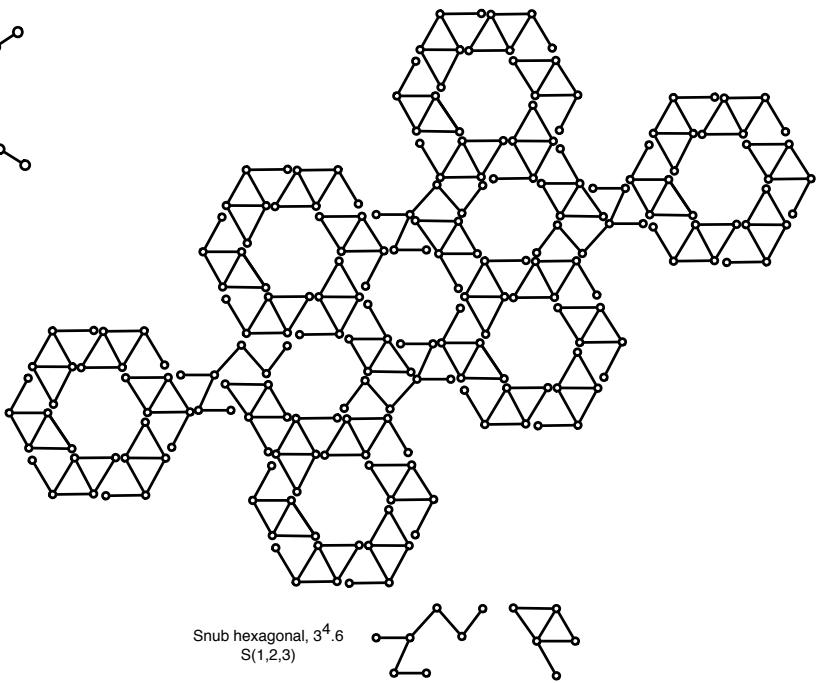
Truncated square, 4.8^2
 $S(1,2,3)$, $S(1,1,4)$, and $S(1,1,1,2)$



Truncated trihexagonal, $4.6.12$
 $S(1,2,3)$, $S(1,1,4)$, and $S(1,1,1,2)$



Truncated hexagonal, 3.12^2
 $S(1,2,3)$



Snub hexagonal, $3^4.6$
 $S(1,2,3)$

