In[1]:=
```
PolyhedronData["Archimedean"]
```

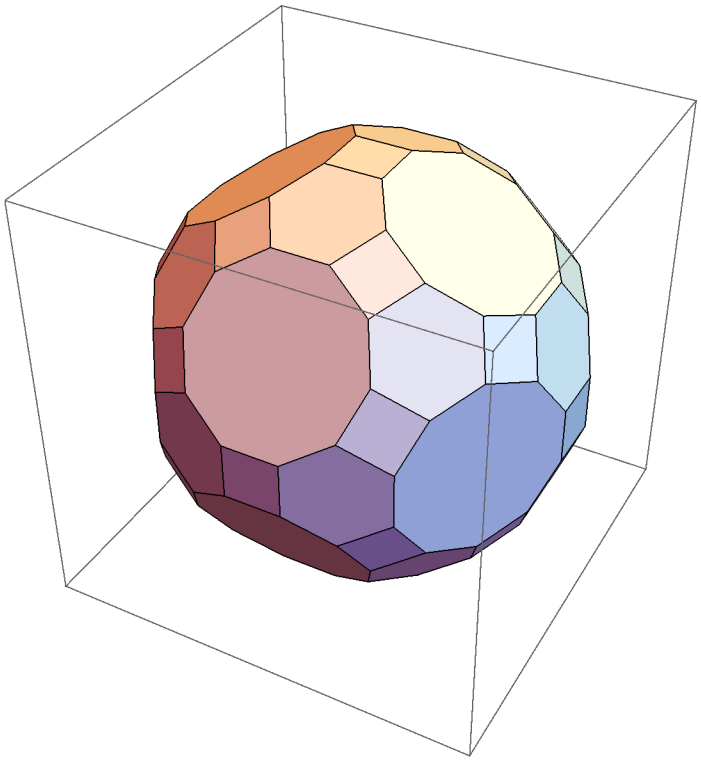
Out[1]=
```
{Cuboctahedron, GreatRhombicosidodecahedron, GreatRhombicuboctahedron,
 Icosidodecahedron, SmallRhombicosidodecahedron, SmallRhombicuboctahedron,
 SnubCube, SnubDodecahedron, TruncatedCube, TruncatedDodecahedron,
 TruncatedIcosahedron, TruncatedOctahedron, TruncatedTetrahedron}
```

In[2]:=
```
PolyhedronData["Johnson"]
```

Out[2]=
```
{AugmentedDodecahedron, AugmentedHexagonalPrism,
 AugmentedPentagonalPrism, AugmentedSphenocorona, AugmentedTriangularPrism,
 AugmentedTridiminishedIcosahedron, AugmentedTruncatedCube,
 AugmentedTruncatedDodecahedron, AugmentedTruncatedTetrahedron,
 BiaugmentedPentagonalPrism, BiaugmentedTriangularPrism, BiaugmentedTruncatedCube,
 BigyrateDiminishedRhombicosidodecahedron, Bilunabirotunda,
 DiminishedRhombicosidodecahedron, {Dipyramid, 3}, {Dipyramid, 5},
 Disphenocingulum, ElongatedPentagonalCupola, ElongatedPentagonalDipyramid,
 ElongatedPentagonalGyrobicupola, ElongatedPentagonalGyrobirotunda,
 ElongatedPentagonalGyrocupolarotunda, ElongatedPentagonalOrthobicupola,
 ElongatedPentagonalOrthobirotunda, ElongatedPentagonalOrthocupolarotunda,
 ElongatedPentagonalPyramid, ElongatedPentagonalRotunda, ElongatedSquareCupola,
 ElongatedSquareDipyramid, ElongatedSquareGyrobicupola, ElongatedSquarePyramid,
 ElongatedTriangularCupola, ElongatedTriangularDipyramid,
 ElongatedTriangularGyrobicupola, ElongatedTriangularOrthobicupola,
 ElongatedTriangularPyramid, GyrateBidiminishedRhombicosidodecahedron,
 GyrateRhombicosidodecahedron, Gyrobifastigium, GyroelongatedPentagonalBicupola,
 GyroelongatedPentagonalBirotunda, GyroelongatedPentagonalCupola,
 GyroelongatedPentagonalCupolarotunda, GyroelongatedPentagonalPyramid,
 GyroelongatedPentagonalRotunda, GyroelongatedSquareBicupola,
 GyroelongatedSquareCupola, GyroelongatedSquareDipyramid, GyroelongatedSquarePyramid,
 GyroelongatedTriangularBicupola, GyroelongatedTriangularCupola,
 HebesphenomegacoronaMetabiaugmentedDodecahedron, MetabiaugmentedHexagonalPrism,
 MetabiaugmentedTruncatedDodecahedron, MetabidiminishedIcosahedron,
 MetabidiminishedRhombicosidodecahedron, MetabigyrateRhombicosidodecahedron,
 MetagyrateDiminishedRhombicosidodecahedron, ParabiaugmentedDodecahedron,
 ParabiaugmentedHexagonalPrism, ParabiaugmentedTruncatedDodecahedron,
 ParabidiminishedRhombicosidodecahedron, ParabigyrateRhombicosidodecahedron,
 ParagyrateDiminishedRhombicosidodecahedron, PentagonalCupola,
 PentagonalGyrobicupola, PentagonalGyrocupolarotunda, PentagonalOrthobicupola,
 PentagonalOrthobirotunda, PentagonalOrthocupolarotunda, PentagonalRotunda,
 {Pyramid, 4}, {Pyramid, 5}, SnubDisphenoid, SnubSquareAntiprism, Sphenocorona,
 Sphenomegacorona, SquareCupola, SquareGyrobicupola, SquareOrthobicupola,
 TriangularCupola, TriangularHebesphenorotunda, TriangularOrthobicupola,
 TriaugmentedDodecahedron, TriaugmentedHexagonalPrism, TriaugmentedTriangularPrism,
 TriaugmentedTruncatedDodecahedron, TridiminishedIcosahedron,
 TridiminishedRhombicosidodecahedron, TrigyrateRhombicosidodecahedron}
```

In[4]:=
```
PolyhedronData["GreatRhombicosidodecahedron"]
```

Out[4]=



In[7]:=
```
PolyhedronData["GreatRhombicosidodecahedronGraph", "Graph"]
```

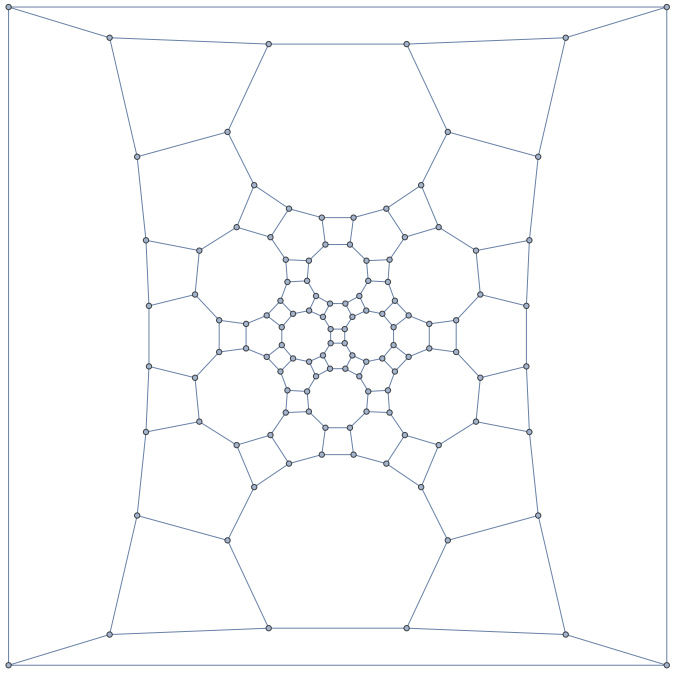
PolyhedronData: PolyhedronData has no value associated with the specified argument(s).

PolyhedronData: PolyhedronData has no value associated with the specified argument(s).

Out[7]=
```
PolyhedronData[GreatRhombicosidodecahedronGraph, Graph]
```

In[64]:=
```
GraphData["GreatRhombicosidodecahedralGraph"]
```

Out[64]=

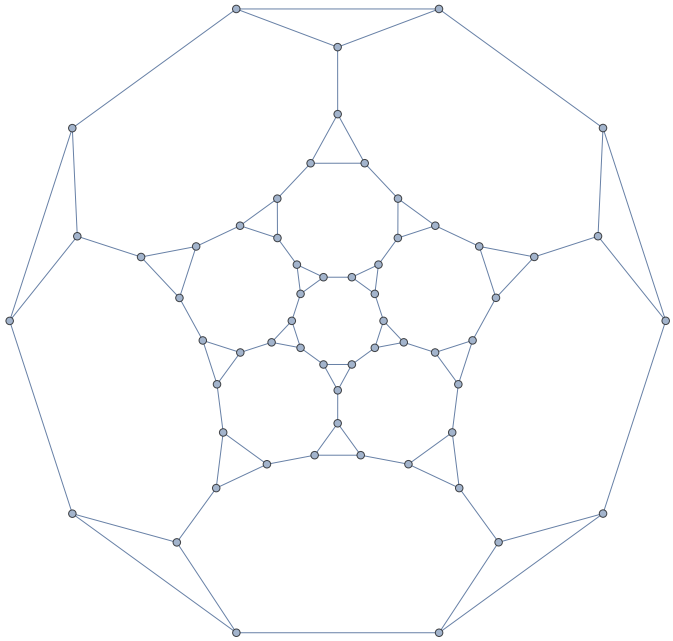


In[66]:=
```
GraphData["GreatRhombicosidodecahedralGraph", "LaplacianMatrix"]
```

Out[66]=
```
Missing[TooLarge]
```

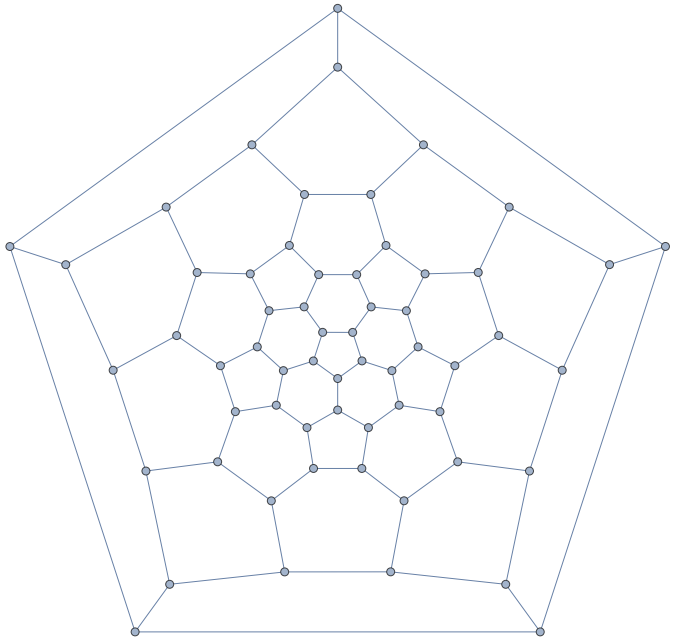
In[67]:=
```
GraphData["TruncatedDodecahedralGraph"]
```

Out[67]=



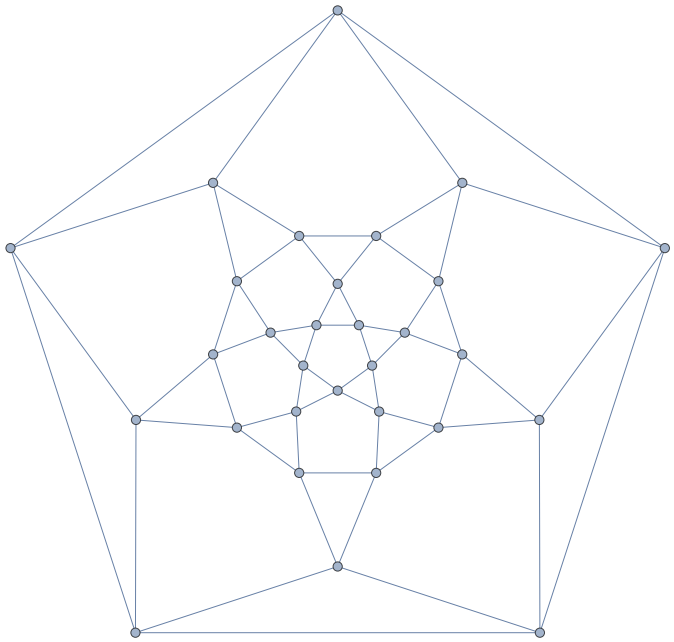
In[68]:= `GraphData["TruncatedIcosahedralGraph"]`

Out[68]=

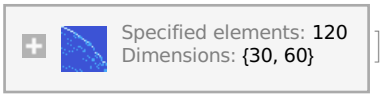


In[69]:= `GraphData["IcosidodecahedralGraph"]`

Out[69]=



In[70]:= `GraphData["IcosidodecahedralGraph", "IncidenceMatrix"]`

Out[70]= `SparseArray[`  `]`

In[71]:= **MatrixForm[%]**

Out[71]//MatrixForm=

$$
\begin{pmatrix}
1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0
\end{pmatrix}
$$

In[72]:=
```
G = MatrixForm[
  DirectedGraph[GraphData["IcosidodecahedralGraph", "IncidenceMatrix"], "Random"]]
```

... DirectedGraph: A graph object is expected at position 1 in DirectedGraph[SparseArray[Automatic, ≪1≫, 0, {1, {{0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120}, {{1}, {2}, {3}, {4}, {5}, {6}, {7}, {8}, {9}, {10}, {11}, {12}, {13}, {14}, {15}, {16}, {1}, {17}, {18}, {19}, {5}, {20}, {21}, {22}, {17}, {23}, {24}, {25}, {20}, {23}, {26}, {27}, {9}, {28}, {29}, {30}, {13}, {31}, {32}, {33}, {34}, {35}, ≪36≫, {51}, {52}, {37}, {48}, {51}, {53}, {30}, {41}, {43}, {54}, {33}, {42}, {44}, {54}, {55}, {56}, {57}, {58}, {46}, {52}, {55}, {59}, {49}, {53}, {56}, {60}, {4}, {12}, {39}, {47}, {8}, {16}, {40}, {50}, {19}, {25}, {57}, {59}, {22}, {27}, {58}, {60}}}, {1, 1}}], R … m].

... DirectedGraph: A graph object is expected at position 1 in DirectedGraph[SparseArray[Automatic, ≪1≫, 0, {1, {{0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120}, {{1}, {2}, {3}, {4}, {5}, {6}, {7}, {8}, {9}, {10}, {11}, {12}, {13}, {14}, {15}, {16}, {1}, {17}, {18}, {19}, {5}, {20}, {21}, {22}, {17}, {23}, {24}, {25}, {20}, {23}, {26}, {27}, {9}, {28}, {29}, {30}, {13}, {31}, {32}, {33}, {34}, {35}, ≪36≫, {51}, {52}, {37}, {48}, {51}, {53}, {30}, {41}, {43}, {54}, {33}, {42}, {44}, {54}, {55}, {56}, {57}, {58}, {46}, {52}, {55}, {59}, {49}, {53}, {56}, {60}, {4}, {12}, {39}, {47}, {8}, {16}, {40}, {50}, {19}, {25}, {57}, {59}, {22}, {27}, {58}, {60}}}, {1, 1}}], R … m].

Out[72]//MatrixForm=

DirectedGraph[SparseArray[ Specified elements: 120 Dimensions: {30, 60}], Random]

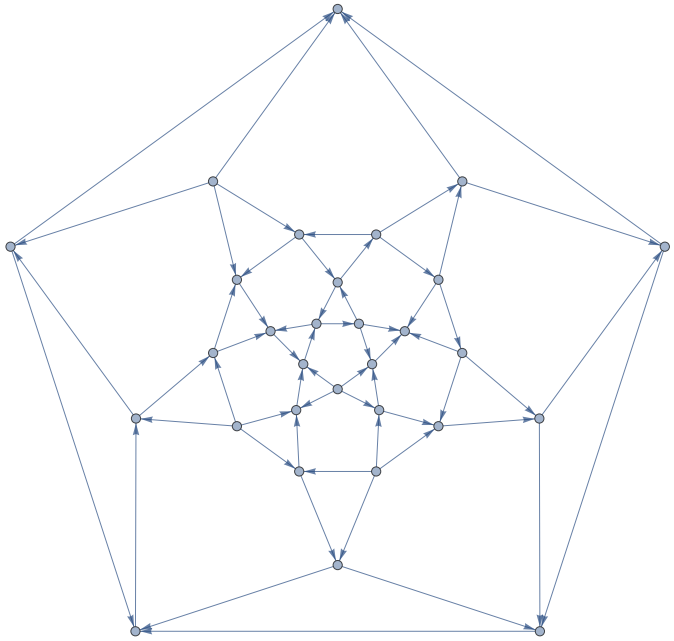
In[73]:=
```
DirectedGraph[GraphData["IcosidodecahedralGraph", "IncidenceMatrix"], "Random"]
```

... DirectedGraph: A graph object is expected at position 1 in DirectedGraph[SparseArray[Automatic, ≪1≫, 0, {1, {{0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120}, {{1}, {2}, {3}, {4}, {5}, {6}, {7}, {8}, {9}, {10}, {11}, {12}, {13}, {14}, {15}, {16}, {1}, {17}, {18}, {19}, {5}, {20}, {21}, {22}, {17}, {23}, {24}, {25}, {20}, {23}, {26}, {27}, {9}, {28}, {29}, {30}, {13}, {31}, {32}, {33}, {34}, {35}, ≪36≫, {51}, {52}, {37}, {48}, {51}, {53}, {30}, {41}, {43}, {54}, {33}, {42}, {44}, {54}, {55}, {56}, {57}, {58}, {46}, {52}, {55}, {59}, {49}, {53}, {56}, {60}, {4}, {12}, {39}, {47}, {8}, {16}, {40}, {50}, {19}, {25}, {57}, {59}, {22}, {27}, {58}, {60}}}, {1, 1}}], R … m].

Out[73]= DirectedGraph[SparseArray[ Specified elements: 120 Dimensions: {30, 60}], Random]

In[76]:=
```
DirectedGraph[GraphData["IcosidodecahedralGraph"], "Random"]
```

Out[76]=



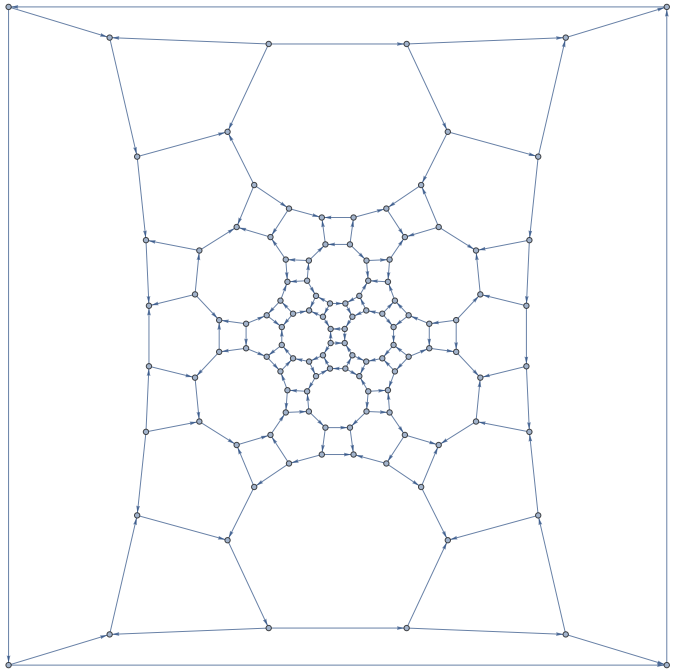
In[75]:=
```
DirectedGraph["IcosidodecahedralGraph"]
```

... DirectedGraph: A graph object is expected at position 1 in DirectedGraph[IcosidodecahedralGraph].

Out[75]=
```
DirectedGraph[IcosidodecahedralGraph]
```

In[96]:=
```
Ga = DirectedGraph[GraphData["GreatRhombicosidodecahedralGraph"], "Random"]
```

Out[96]=



In[97]:= `Aa = IncidenceMatrix[Ga]`

Out[97]= SparseArray[Specified elements: 360 Dimensions: {120, 180}]

In[98]:= `MatrixForm[%]`

Out[98]//MatrixForm=

(… 1 …)

large output | show less | show more | show all | set size limit...

In[99]:= `A = Drop[Aa, {1, 1}]`

Out[99]= SparseArray[Specified elements: 357 Dimensions: {119, 180}]

In[83]:= `MatrixForm[A]`

Out[83]//MatrixForm=

0	0	0	0	-1	1	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	-1	1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	1	-1	-1	-1	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	1	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0
0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	-1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	-1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0

In[100]:= `K = A.Transpose[A]`

Out[100]= SparseArray[Specified elements: 473 Dimensions: {119, 119}]

In[101]:= **MatrixForm[K]**

Out[101]//MatrixForm=

$$\begin{pmatrix}
3 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 3 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 3 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 3 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
-1 & 0 & 0 & 0 & 3 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & -1 & 0 & -1 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & -1 & 0 & -1 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\
-1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 3 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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-1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
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0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1
\end{pmatrix}$$

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	−1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	−1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	−1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	−1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	−1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

In[102]:=
```
{lu, p, c} = LUDecomposition[K];
```

In[103]:=
```
det = Tr[lu, Times]
```

Out[103]=
```
21 789 262 703 685 125 511 464 767 107 171 876 864 000
```

In[104]:=
```
V = det * Inverse[K];
```

In[105]:=
```
MatrixForm[V]
```

Out[105]//MatrixForm=

(··· 1 ···)

large output | show less | show more | show all | set size limit...

In[106]:=
```
W = Apply[GCD, V, {1}]
```

Out[106]=
```
{40 725 404 562 710 097 138 450 589 286 400,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
 122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
 122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
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 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 366 528 641 064 390 874 246 055 303 577 600, 1 031 981 751 619 073 861 488 337 932 517 376 000,
 122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
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 40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
 122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
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40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
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122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400,
40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
40 725 404 562 710 097 138 450 589 286 400, 122 176 213 688 130 291 415 351 767 859 200,
122 176 213 688 130 291 415 351 767 859 200, 40 725 404 562 710 097 138 450 589 286 400}
```

In[107]:=
```
Y = MatrixForm[V / W]
```

Out[107]//MatrixForm=

1 042 707 070	353 814 349	688 892 721	178 762 390	863 944 680	278 109 393	764 597 677	497 828
353 814 349	739 100 344	385 285 995	265 087 393	364 434 396	474 012 951	374 665 948	290 708
229 630 907	128 428 665	358 059 572	63 127 479	258 405 908	99 653 664	294 932 093	149 299
178 762 390	265 087 393	189 382 437	381 293 926	183 764 856	312 005 565	187 201 273	156 377
287 981 560	121 478 132	258 405 908	61 254 952	355 492 072	95 516 092	299 280 284	160 369
92 703 131	158 004 317	99 653 664	104 001 855	95 516 092	196 739 828	97 781 137	78 423 3
764 597 677	374 665 948	884 796 279	187 201 273	897 840 852	293 343 411	1 076 707 768	464 708
497 828 338	290 708 059	447 897 504	156 377 083	481 108 749	235 270 017	464 708 632	847 810
181 626 244	101 294 505	160 590 814	54 014 267	174 164 475	81 663 229	167 346 452	235 054
170 482 498	131 920 495	164 907 558	84 446 473	169 308 459	116 133 429	167 436 610	184 796
290 741 524	116 079 803	216 776 906	59 196 117	259 302 885	91 687 835	236 749 536	169 821
170 334 598	149 464 095	197 468 758	69 883 117	179 478 323	113 227 325	188 355 546	128 844
531 703 276	435 216 829	626 281 212	206 193 565	562 590 237	332 172 237	593 275 858	396 138
128 933 804	202 393 283	141 282 666	83 100 109	133 316 837	142 179 643	137 351 304	104 869
655 905 658	390 860 935	909 271 158	191 911 489	726 443 595	303 361 893	804 335 194	440 551
86 059 259	107 083 076	89 728 773	98 949 151	88 248 764	115 265 737	89 420 136	77 953 7
784 529 293	364 822 891	751 964 172	185 330 905	902 614 356	288 192 024	852 217 111	480 789

301 751 440	417 851 116	322 214 544	289 635 376	311 445 576	449 611 176	318 163 012	258 724
246 985 210	124 759 151	268 330 799	62 818 842	283 942 872	98 173 655	304 152 471	155 039
167 892 412	100 456 983	153 113 764	55 664 195	164 445 339	82 672 699	159 351 626	229 638
539 029 834	309 478 405	486 586 434	168 421 171	527 260 029	252 487 035	508 938 538	658 658
90 499 286	76 143 845	89 220 786	53 893 623	91 298 845	70 890 011	90 790 858	92 783 5
771 209 212	349 978 849	645 826 398	181 161 067	754 127 691	278 984 109	705 769 852	507 371
511 784 692	437 729 395	587 592 282	211 734 541	541 118 325	339 634 587	566 631 016	389 047
176 974 126	143 207 313	204 945 808	69 365 341	187 964 843	110 985 239	197 482 524	132 649
393 045 172	510 668 809	428 352 318	249 325 891	408 375 435	407 262 285	420 130 948	321 821
216 553 966	129 707 165	268 838 786	64 697 551	240 075 133	101 731 723	259 604 930	147 307
294 019 501	280 809 175	295 961 976	219 613 057	299 028 444	275 774 892	299 416 939	286 481
249 562 523	118 585 608	225 227 465	61 257 111	263 179 412	94 502 277	248 784 356	165 379
40 996 350	50 921 241	44 277 369	28 894 790	42 560 240	45 868 537	43 653 913	34 115 9
26 588	15 128	30 711	7610	29 796	11 919	31 904	17 75
139 557 692	106 376 794	140 348 593	49 268 743	137 185 087	79 137 348	137 492 321	124 451
624 033 994	356 187 052	589 350 027	171 644 575	593 077 833	271 913 280	583 336 645	461 698
455 729 746	419 969 962	484 828 689	183 369 055	457 780 977	302 688 798	467 090 827	368 583
195 659 108	127 637 764	217 710 979	60 271 207	197 194 663	96 490 158	203 852 243	142 643
380 647 996	275 936 278	371 055 513	131 993 599	371 444 991	208 773 756	368 565 421	378 974
220 686 358	114 740 622	194 727 001	56 519 795	205 096 761	88 675 606	197 574 479	165 422
149 644 528	154 388 022	163 332 571	65 974 957	152 354 513	110 023 424	156 724 887	119 859
593 773 486	394 878 478	703 123 203	186 892 345	612 935 967	299 350 470	645 734 365	425 766
185 783 872	138 020 872	180 738 765	69 288 361	181 955 445	106 889 766	180 390 877	193 854
285 641 066	116 256 414	213 709 907	58 311 321	249 149 723	90 905 466	228 567 857	167 637
132 177 414	200 359 824	144 349 665	77 985 429	135 601 467	135 093 480	139 533 507	107 414
646 174 828	390 331 102	893 439 951	189 034 549	701 368 725	300 177 672	773 345 875	438 431
148 309 682	88 956 571	134 192 926	46 698 621	142 498 935	70 934 089	138 010 554	204 774
597 778 024	311 464 081	510 833 388	161 330 149	559 111 497	247 212 009	532 470 898	609 021
79 983 212	55 776 650	75 686 772	30 552 850	78 009 614	45 243 418	76 645 752	92 013 4
802 757 434	340 925 029	616 273 035	172 841 596	715 653 594	268 097 013	660 378 295	523 192
413 544 715	571 770 394	457 905 681	233 487 697	427 041 702	398 341 551	441 364 840	331 300
209 720 785	132 725 105	282 372 800	64 086 459	227 962 554	101 976 506	249 798 171	143 945
489 523 414	472 230 631	563 345 328	211 019 947	511 596 345	347 239 101	535 293 040	374 412
184 394 552	142 545 421	223 866 646	66 945 107	195 147 071	107 959 673	207 437 788	134 644
105 800 660	82 244 222	105 051 993	38 735 511	103 945 831	61 646 348	103 745 125	101 841
725 305 090	351 568 348	618 223 407	173 197 903	662 749 233	271 942 788	632 134 741	487 715
422 237 662	492 367 678	455 955 309	203 293 771	428 937 105	343 486 818	439 770 775	344 724
206 823 136	129 177 332	253 007 579	61 820 611	215 000 263	98 547 502	228 615 611	145 187
489 597 160	355 214 020	498 408 165	164 087 449	481 108 749	264 308 766	484 115 641	397 345
184 369 970	120 875 118	184 836 527	56 757 993	179 478 323	90 875 958	179 769 761	141 620
165 669 498	127 962 108	173 223 045	58 060 713	164 445 339	94 295 460	166 853 559	131 274
545 698 576	376 474 990	575 770 551	175 089 913	541 118 325	281 661 576	550 475 563	415 537
363 582 538	232 048 483	335 534 625	121 240 816	350 822 622	184 167 567	341 984 281	449 469
226 374 844	108 588 812	185 786 222	55 334 158	207 200 986	85 503 712	195 060 902	185 733
152 433 497	169 017 287	172 273 350	72 402 159	158 123 398	121 068 428	164 480 029	119 015
585 406 579	413 333 908	738 644 091	195 832 093	623 850 666	314 248 989	670 502 470	416 525
385 774 072	326 240 848	393 673 659	147 337 639	382 112 043	239 153 610	384 749 827	343 742
218 977 666	120 571 312	209 786 499	58 366 787	208 502 749	92 361 716	205 992 405	154 655
140 415 720	137 619 832	148 273 073	59 333 385	140 981 125	98 369 914	143 512 381	117 450
621 459 910	377 386 408	680 505 057	180 458 605	620 697 675	287 399 376	638 460 259	442 486
473 376 262	277 852 597	424 304 205	142 669 690	450 559 044	218 969 217	435 402 073	545 689
189 776 936	101 580 764	164 456 352	51 981 724	177 746 036	80 045 068	170 063 544	188 233
166 755 319	153 749 249	193 603 220	68 734 671	173 994 624	112 943 348	182 457 465	126 552
542 441 113	434 358 052	649 874 511	200 480 305	569 882 736	325 215 831	603 161 764	399 132
135 289 644	87 315 262	125 654 927	43 989 345	130 314 073	67 990 060	127 327 975	152 681
636 838 138	324 910 198	544 969 575	163 835 677	590 043 783	254 224 386	562 698 925	539 389
468 833 344	477 154 558	529 209 141	207 111 787	484 472 535	344 035 200	503 662 381	365 427
191 291 242	138 063 382	232 404 645	64 800 527	200 741 041	104 312 810	213 266 511	137 936
142 031 333	98 838 836	135 884 337	60 319 171	142 573 022	85 592 623	140 267 370	155 245
616 613 071	335 373 361	559 315 230	180 387 457	618 808 194	272 817 504	595 281 547	541 902
464 950 852	442 583 836	514 863 486	225 348 754	488 719 998	358 453 956	505 868 506	369 026

192 585 406	134 575 661	222 175 235	67 510 512	208 114 194	106 342 349	219 366 927	140 531
454 116 886	313 058 206	437 301 555	185 709 961	458 165 223	267 934 590	451 624 693	473 154
196 196 728	112 333 006	182 611 347	60 936 909	198 512 585	91 872 400	192 805 127	175 766
159 352 566	142 014 046	175 448 225	73 321 259	167 666 961	115 554 902	173 257 655	126 869
564 649 372	402 101 326	636 877 161	203 705 575	605 850 759	319 824 660	633 204 685	420 768
167 590 872	121 090 950	171 524 817	67 139 391	174 164 475	101 083 752	175 366 161	142 322
539 934 454	365 616 184	549 392 955	198 483 199	562 590 237	301 435 260	565 076 317	443 438
505 115 950	375 827 494	524 785 761	205 065 799	527 260 029	312 158 274	533 886 523	419 437
179 197 040	124 494 720	186 534 755	66 968 823	187 964 843	102 293 322	190 546 667	144 721
164 249 791	104 630 564	154 541 837	60 196 135	164 620 912	88 031 917	160 898 468	175 395
549 957 697	324 690 487	510 035 040	179 875 753	551 783 712	268 055 424	535 944 055	545 127
503 548 168	425 208 652	564 143 676	215 291 452	533 238 108	340 709 664	554 636 992	389 904
179 719 634	138 136 619	203 517 735	69 484 110	191 895 988	109 732 739	200 586 391	135 481
474 173 536	303 926 383	443 539 938	176 179 501	471 639 273	256 297 239	460 517 464	560 279
189 511 178	107 726 917	172 881 856	58 742 709	188 650 215	88 151 107	182 240 460	193 965
349 991 575	272 564 935	342 117 540	180 983 077	353 352 702	246 101 778	350 264 173	363 773
230 905 165	115 313 438	203 822 027	60 707 839	231 645 394	92 793 997	220 235 960	172 170
141 122 318	155 511 803	154 237 545	79 541 412	147 377 878	127 477 031	151 817 905	114 603
619 340 116	393 160 030	732 061 176	197 529 070	679 201 962	310 196 154	723 661 816	435 352
164 475 968	145 057 987	185 177 716	72 486 083	173 675 159	115 422 023	180 792 946	127 553
549 279 166	415 919 593	630 638 778	206 359 963	587 975 025	327 060 327	617 435 842	408 663
413 137 528	324 866 176	415 032 237	200 336 413	422 946 369	284 695 626	423 172 393	391 444
209 856 514	118 569 686	200 207 123	62 857 077	217 047 855	96 048 086	212 051 925	162 707
147 993 470	138 078 056	157 852 449	74 972 281	154 246 871	116 494 396	157 582 047	123 632
598 726 660	383 391 286	659 146 479	197 522 593	644 881 113	306 875 124	670 100 455	442 410
147 840 810	117 695 116	151 144 439	68 371 475	152 494 245	100 766 432	153 507 593	133 186
599 184 640	363 725 236	598 455 639	192 722 695	625 536 675	295 109 742	623 374 543	469 243
454 162 318	386 014 996	475 723 077	214 301 341	471 871 827	326 042 028	479 063 335	389 213
196 181 584	125 125 036	206 915 133	65 490 633	208 027 901	101 003 470	212 159 129	150 141
117 460 956	97 582 254	117 012 417	66 770 283	119 480 835	89 619 144	119 205 945	115 744
690 324 202	352 468 732	629 256 615	184 822 027	711 872 661	283 344 360	681 072 241	500 257
412 104 838	446 353 582	444 922 101	241 198 063	429 305 469	381 577 038	440 361 691	340 584
210 200 744	128 877 204	241 047 155	65 321 007	231 012 635	102 122 082	244 689 959	147 513
147 835 762	109 588 806	146 875 381	65 194 655	150 971 289	94 310 050	150 458 855	142 513
599 199 784	350 933 206	574 151 853	188 168 971	616 021 359	285 978 672	604 020 541	494 868
465 674 074	410 333 926	500 026 863	219 251 125	487 044 543	340 830 498	498 813 397	382 896
192 344 332	129 389 046	211 184 191	66 710 953	205 840 577	103 749 572	213 251 367	144 755
463 267 444	348 374 872	469 544 637	200 705 521	477 630 009	296 160 234	479 332 609	418 022
193 146 542	120 030 514	191 333 383	64 374 985	200 460 919	98 058 186	199 163 489	156 394
158 328 038	130 241 824	166 726 189	70 957 585	165 130 711	108 781 200	167 973 695	132 394
567 722 956	379 008 802	604 634 079	199 170 409	601 833 321	307 046 364	615 957 163	439 618

In[108]:=
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F = Transpose[A].V.A;
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In[109]:=
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MatrixForm[F]
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Out[109]//MatrixForm=

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In[110]:=
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R = Apply[GCD, F, {1}]
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Out[110]= {40 725 404 562 710 097 138 450 589 286 400, 40 725 404 562 710 097 138 450 589 286 400,
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In[111]:= B = MatrixForm[F / R]

381 293 926	84 446 473	-69 288 361	5 002 466	-1 174 039	3 828 427	-46 918 172	-15
84 446 473	332 344 168	-118 238 119	-1 174 039	1 550 465	376 426	15 787 066	7
-69 288 361	-118 238 119	347 502 280	3 828 427	376 426	4 204 853	-31 131 106	-8
5 002 466	-1 174 039	3 828 427	381 293 926	84 446 473	-69 288 361	2 181 164	2

−1 174 039	1 550 465	376 426	84 446 473	332 344 168	−118 238 119	−2 529 052	−6
3 828 427	376 426	4 204 853	−69 288 361	−118 238 119	347 502 280	−347 888	18
−46 918 172	15 787 066	−31 131 106	2 181 164	−2 529 052	−347 888	381 293 926	−84
−15 787 066	7 739 420	−8 047 646	2 529 052	−657 203	1 871 849	−84 446 473	332
31 131 106	−8 047 646	23 083 460	347 888	1 871 849	2 219 737	69 288 361	−11
−2 181 164	2 529 052	347 888	46 918 172	−15 787 066	31 131 106	−5 002 466	−1
2 529 052	−657 203	1 871 849	−15 787 066	7 739 420	−8 047 646	1 174 039	15
347 888	1 871 849	2 219 737	31 131 106	−8 047 646	23 083 460	−3 828 427	3
69 288 361	−31 686 956	37 601 405	−3 436 417	1 871 849	−1 564 568	69 288 361	31
84 446 473	−52 759 517	31 686 956	−1 566 049	−697 810	−2 263 859	−22 370 189	−15
3 436 417	−1 871 849	1 564 568	−69 288 361	31 686 956	−37 601 405	3 436 417	18
−1 566 049	−697 810	−2 263 859	84 446 473	−52 759 517	31 686 956	1 255 253	−6
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−1 736 060, −5 384 977, 13 275 482, −7 890 505, 1 174 039, −5 002 466, −3 828 427,
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2 573 827, 1 566 049, 4 778 012, 25 564, −4 752 448, 4 151 464, −3 749 204, 402 260,
10 615 502, −16 281 220, 5 665 718, 1 050 694, −1 559 572, −2 610 266, 9 186 916, −4 408 904,
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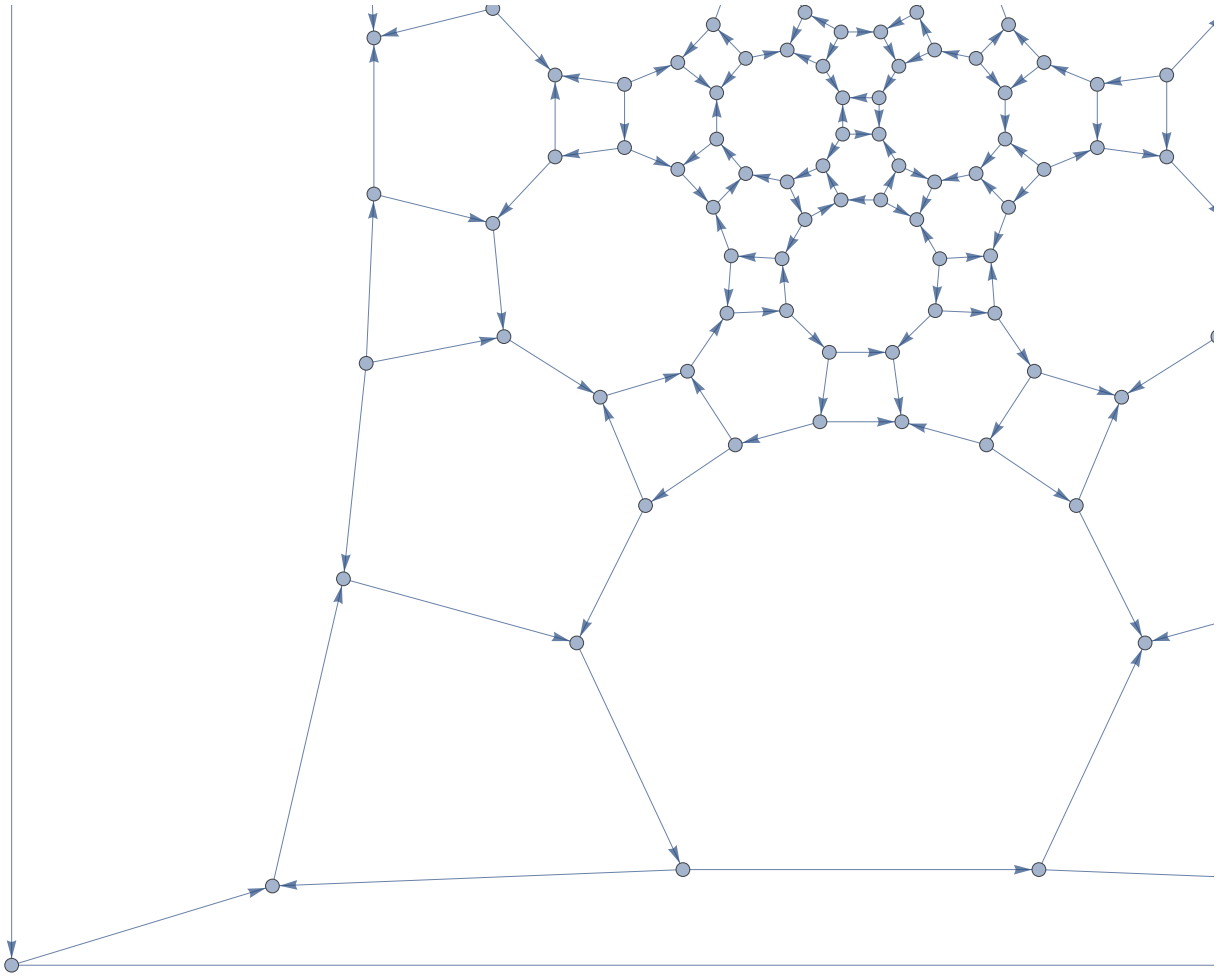
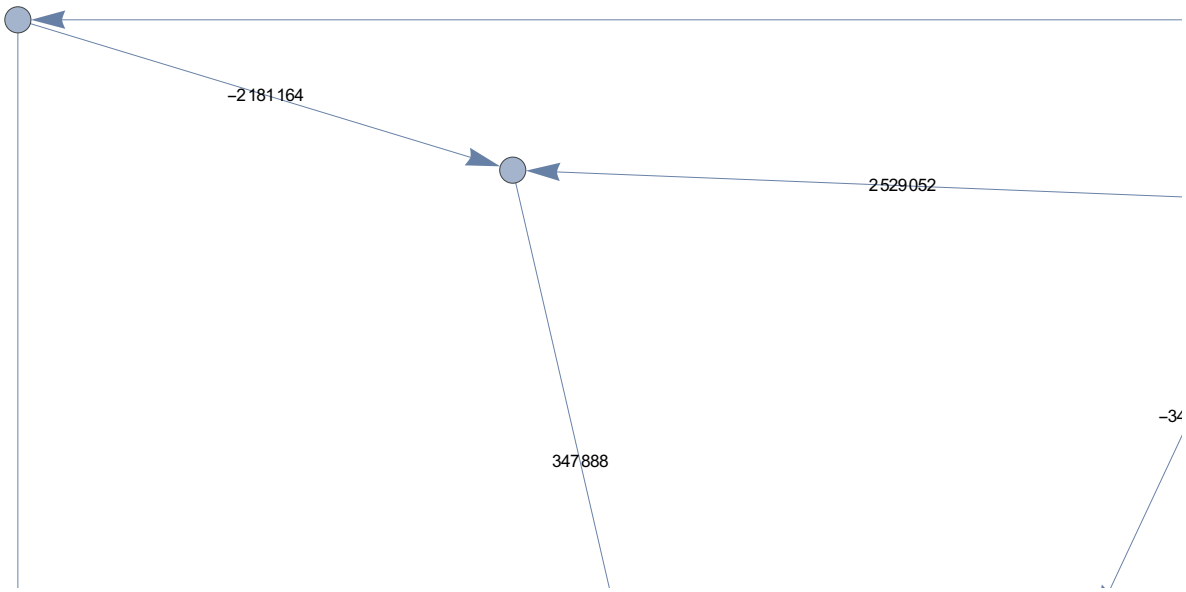
In[137]:= `Graph[Ga, EdgeWeight → W]`

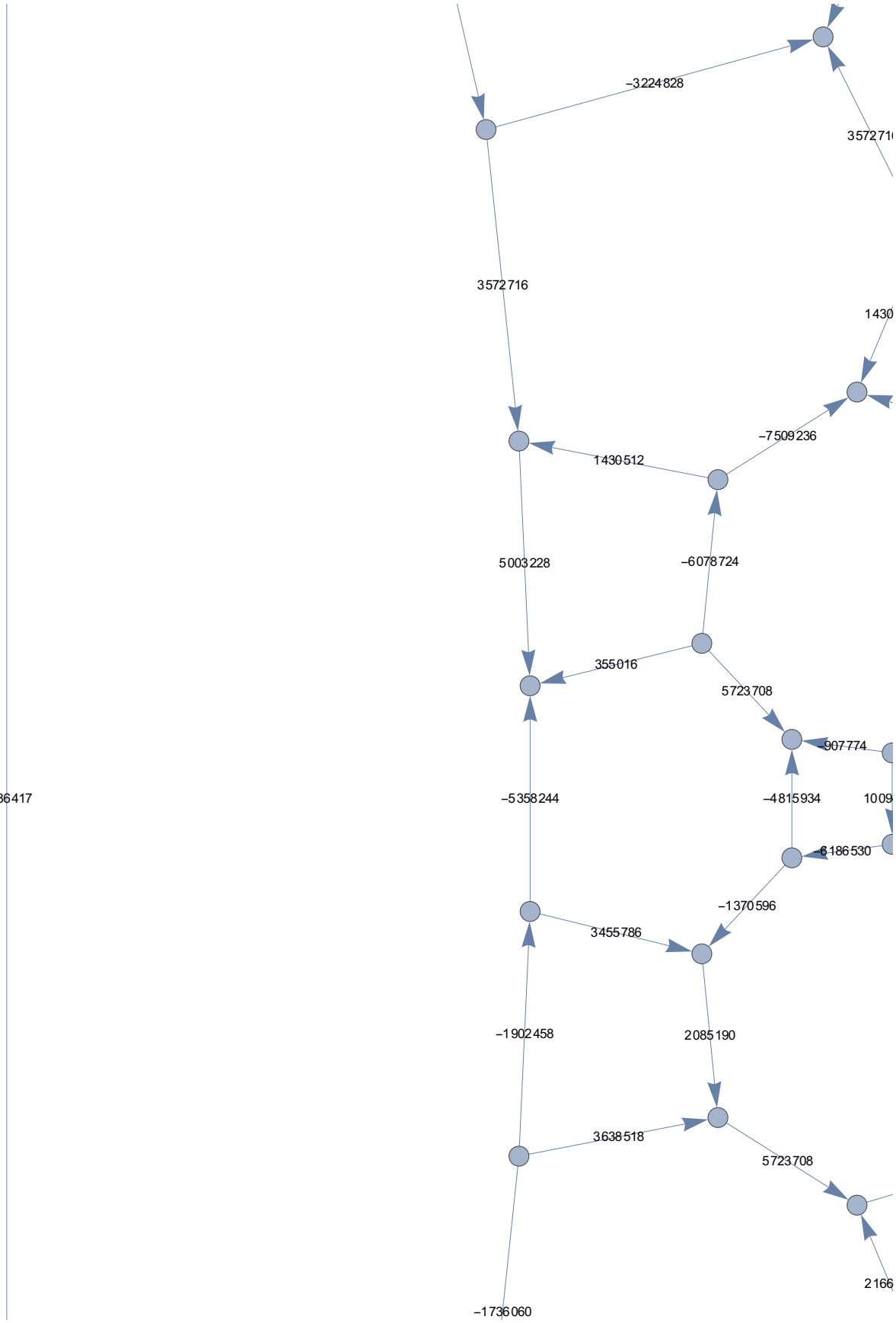
Out[137]=



In[138]:= `Graph[Wg, EdgeLabels → "EdgeWeight"]`



Out[138]=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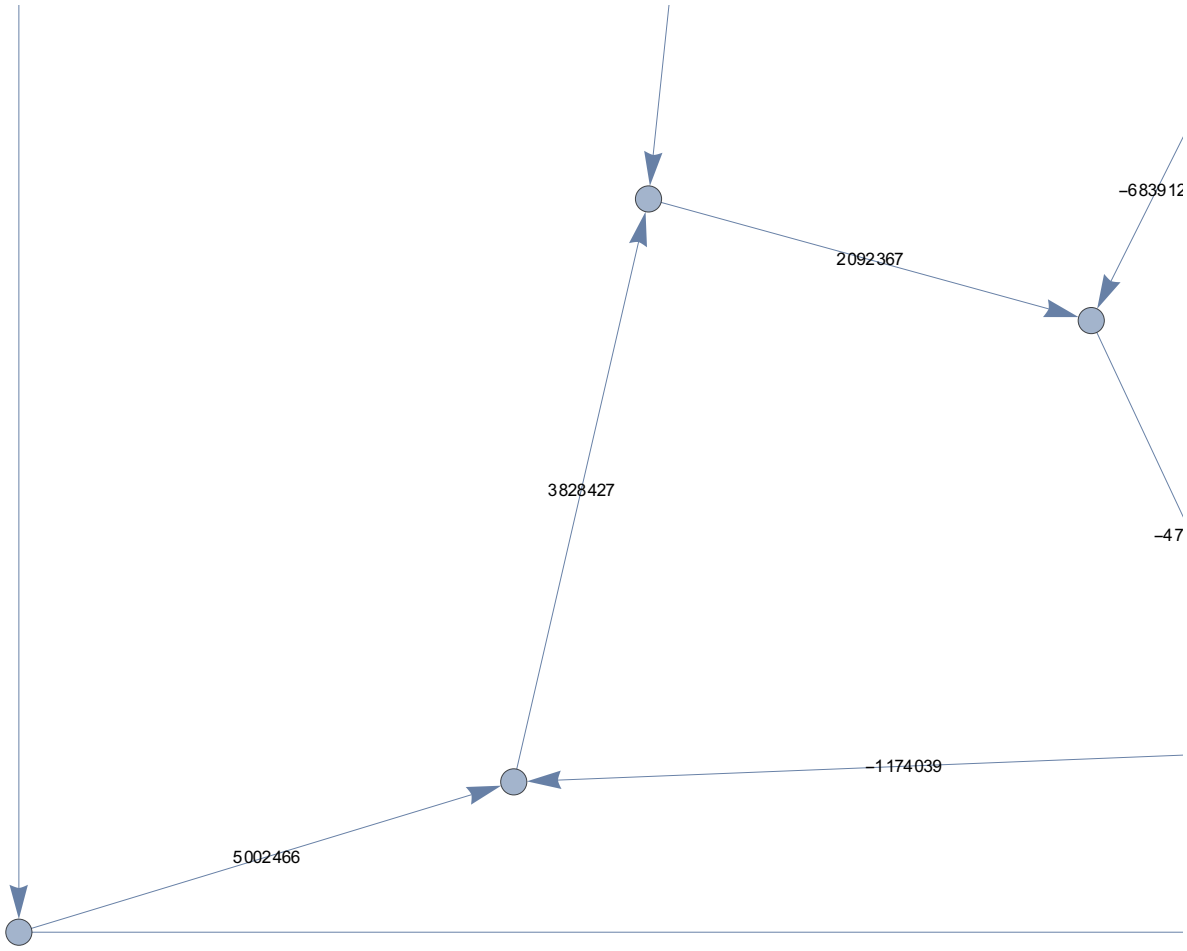

Set: Tag Inherited in Inherited[State] is Protected.

Export: Cannot infer format of file greatrhombiicos.ps.

In[127]:=
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Cm[[1]]
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Out[127]=
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