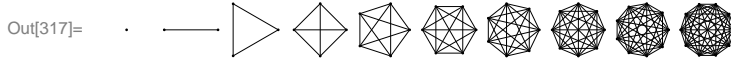


```

In[315]:= << Combinatorica`
Print["Kn: The Complete Graph with n Vertices for n=1,...,10"]
ShowGraphArray[Table[CompleteGraph[i], {i, 1, 10}]]
Print["K̄n: The Null Graph with n Vertices for n=1,...,10"]
ShowGraphArray[Table[EmptyGraph[i], {i, 1, 10}]]
Print["Pn: The Path Graph with n Vertices for n=1,...,10"]
ShowGraphArray[Table[Path[i], {i, 1, 10}]]
Print["Cn: The Cycle Graph with n Vertices for n=3,...,10"]
Print["The Cycle Graph does not exist for n=1,2"]
ShowGraphArray[Table[Cycle[i], {i, 3, 10}]]
Print["Wn: The Wheel Graph with n Vertices for n=3,...,10"]
ShowGraphArray[Table[Wheel[i], {i, 4, 11}]]
Print["Kn,n: The Complete Bipartite Graph with n Vertices for n=1,...,6"]
ShowGraphArray[Table[CompleteGraph[i, i], {i, 1, 6}]]
Print[
  "Km,n: The Complete Bipartite Graph with m and n vertices for m=1,...,6 and n=1,...,6"]
ShowGraphArray[Table[CompleteGraph[m, i], {m, 1, 6}, {i, 1, 6}]]
Print["K̄m,n: The Complement of the Complete
  Bipartite Graph with m and n vertices for m=1,...,6 and n=1,...,6"]
ShowGraphArray[Table[GraphComplement[CompleteGraph[m, i]], {m, 1, 6}, {i, 1, 6}]]
Print["Gm,n: The Grid Graph with m and n vertices for m=1,...,6 and n=1,...,6"]
ShowGraphArray[Table[GridGraph[m, i], {m, 1, 6}, {i, 1, 6}]]
Print["Qn: The Hypercube with n Vertices for n=1,...,5"]
ShowGraphArray[Table[Hypercube[i], {i, 1, 5}]]

```

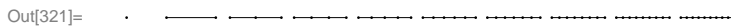
K_n: The Complete Graph with n Vertices for n=1,...,10



K̄_n: The Null Graph with n Vertices for n=1,...,10

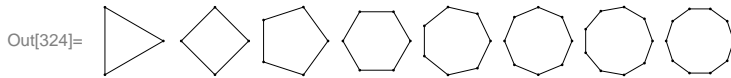


P_n: The Path Graph with n Vertices for n=1,...,10

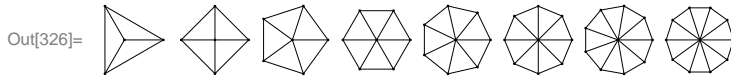


C_n: The Cycle Graph with n Vertices for n=3,...,10

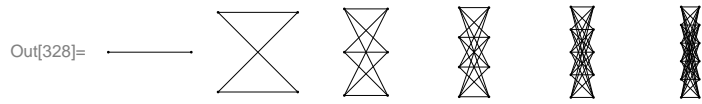
The Cycle Graph does not exist for n=1,2



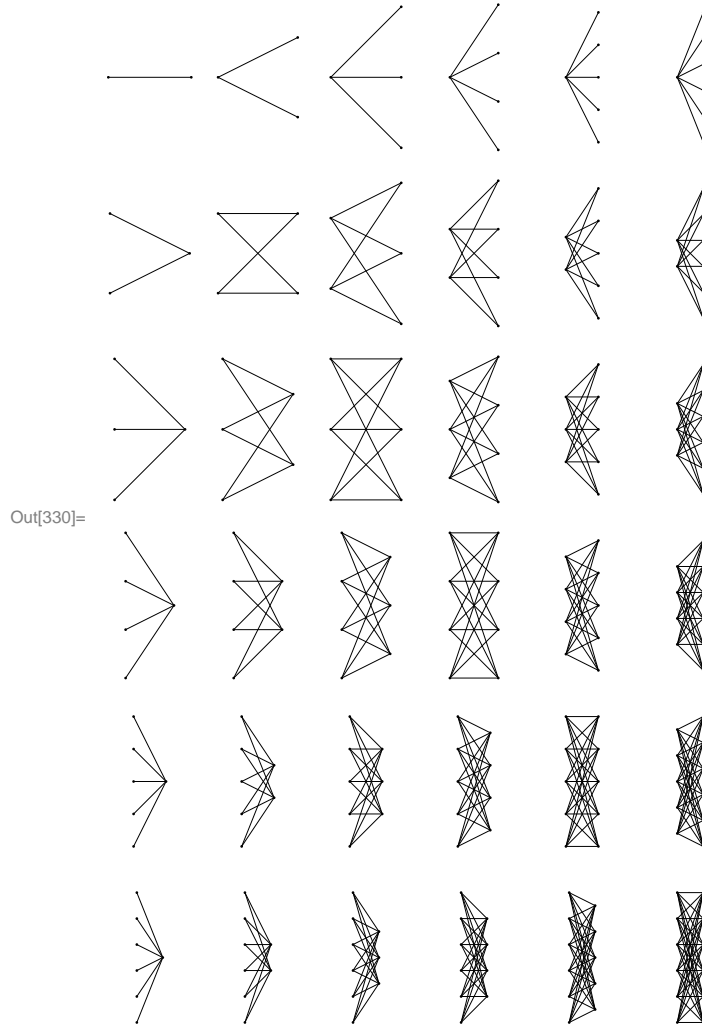
W_n: The Wheel Graph with n Vertices for n=3,...,10



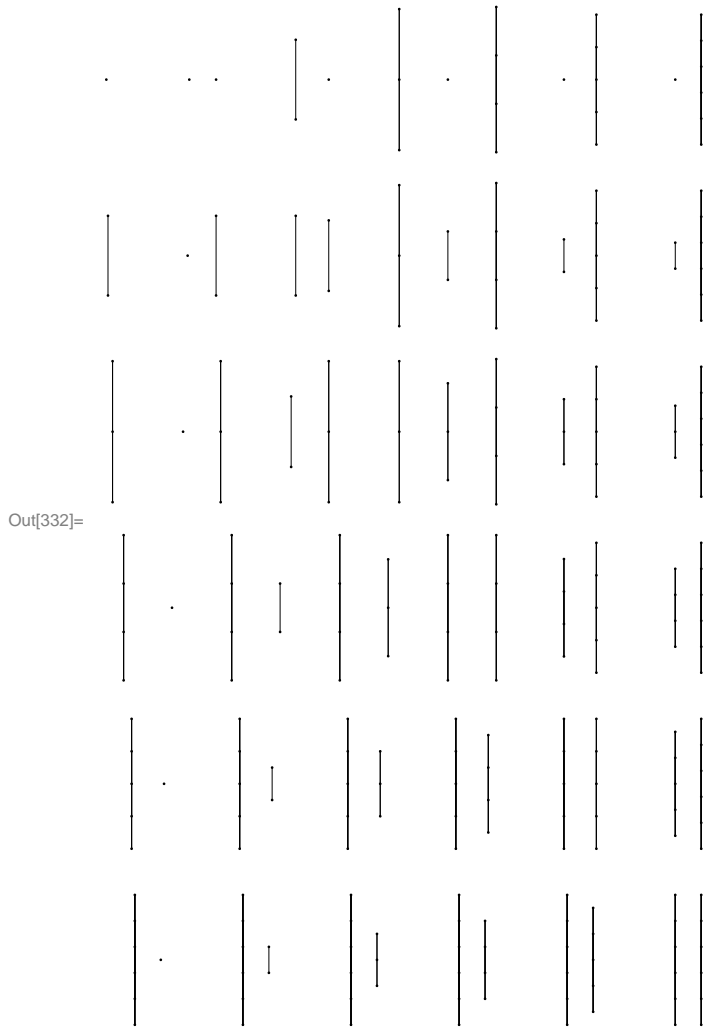
K_{n,n}: The Complete Bipartite Graph with n Vertices for n=1,...,6



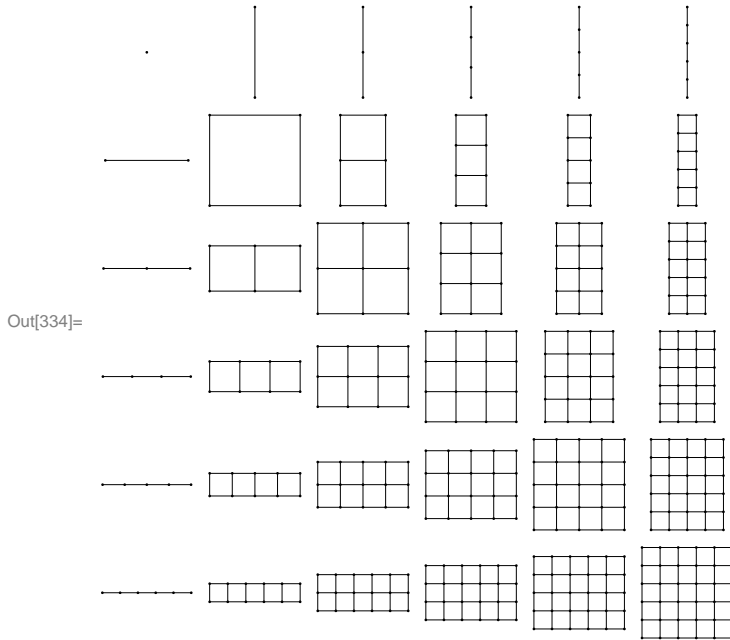
$K_{m,n}$: The Complete Bipartite Graph with m and n vertices for $m=1,\dots,6$ and $n=1,\dots,6$



$\overline{K_{m,n}}$: The Complement of the Complete Bipartite Graph with m and n vertices for $m=1,\dots,6$ and $n=1,\dots,6$



$G_{m,n}$: The Grid Graph with m and n vertices for $m=1,\dots,6$ and $n=1,\dots,6$



Q_n : The Hypercube with n Vertices for $n=1, \dots, 5$

