Recursive Generation Algoritm
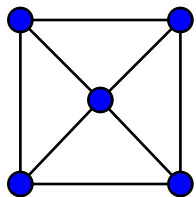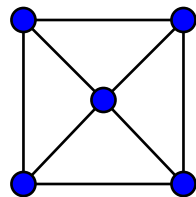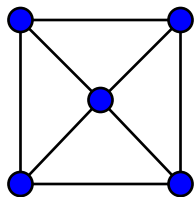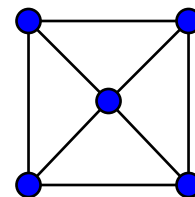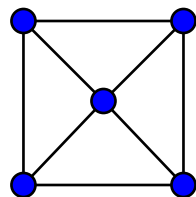
| 0. Iteration | 1. Iteration - Step 1 | 2. Iteration - Step 2 |