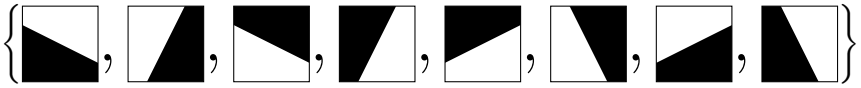
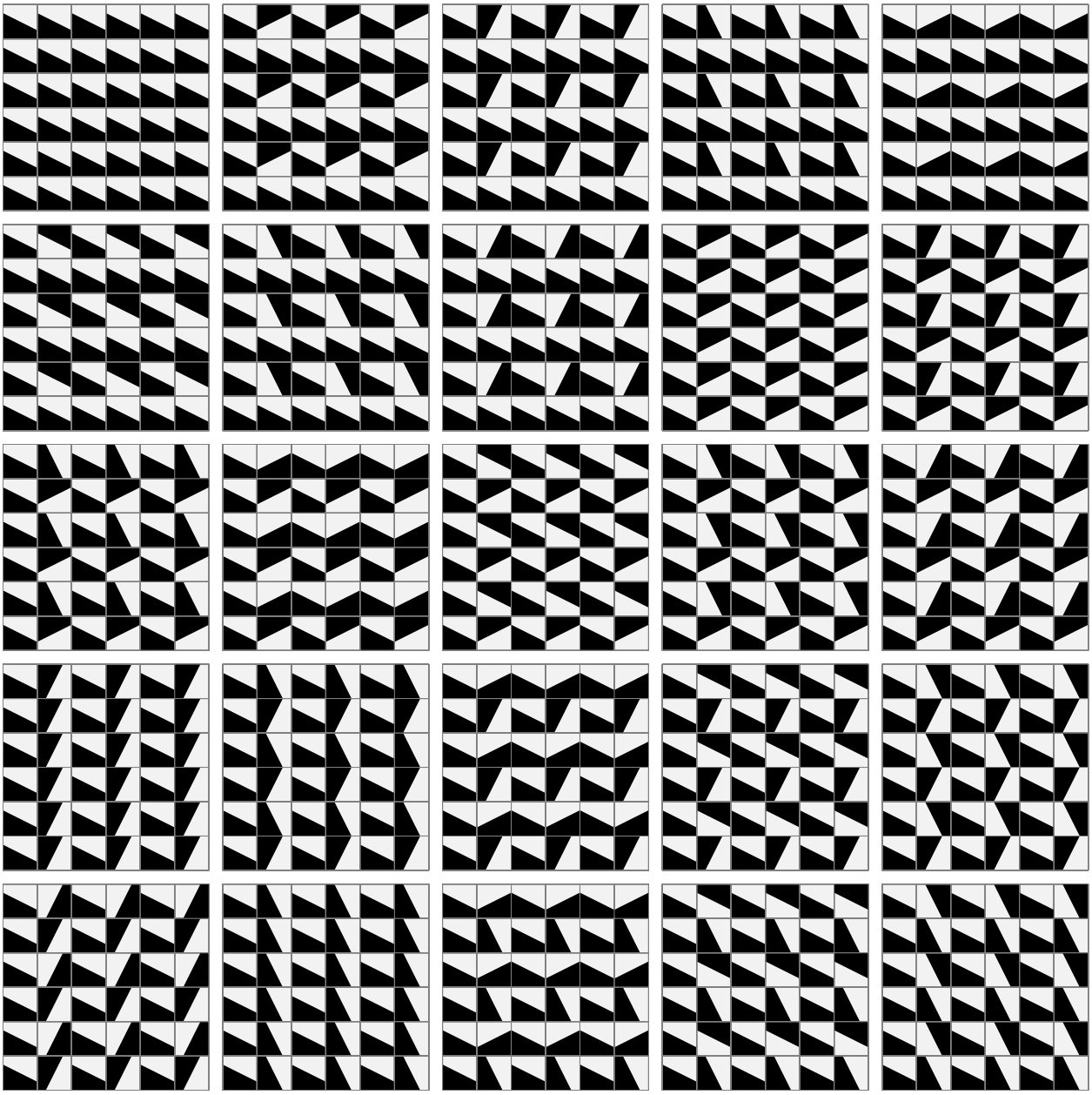
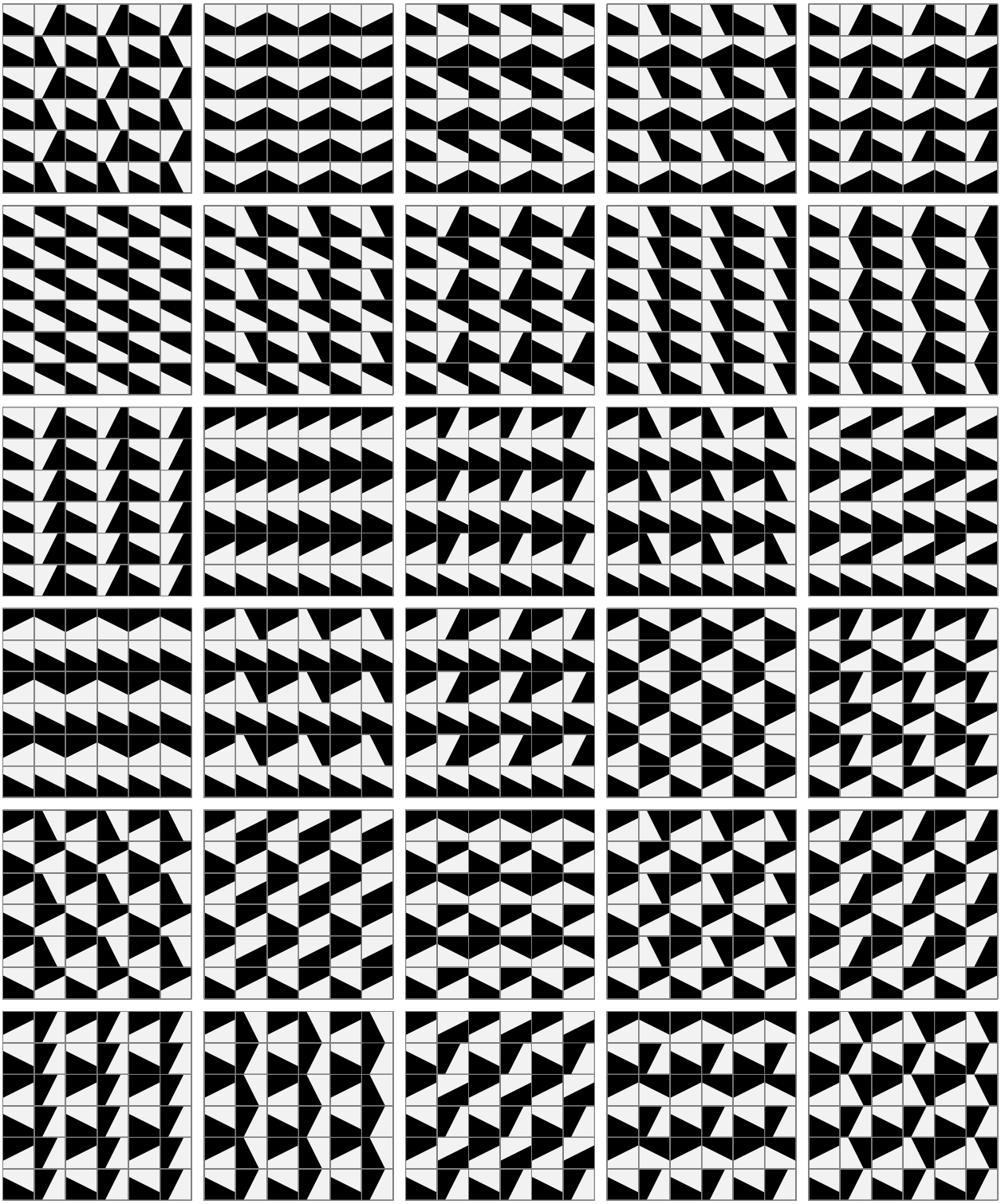
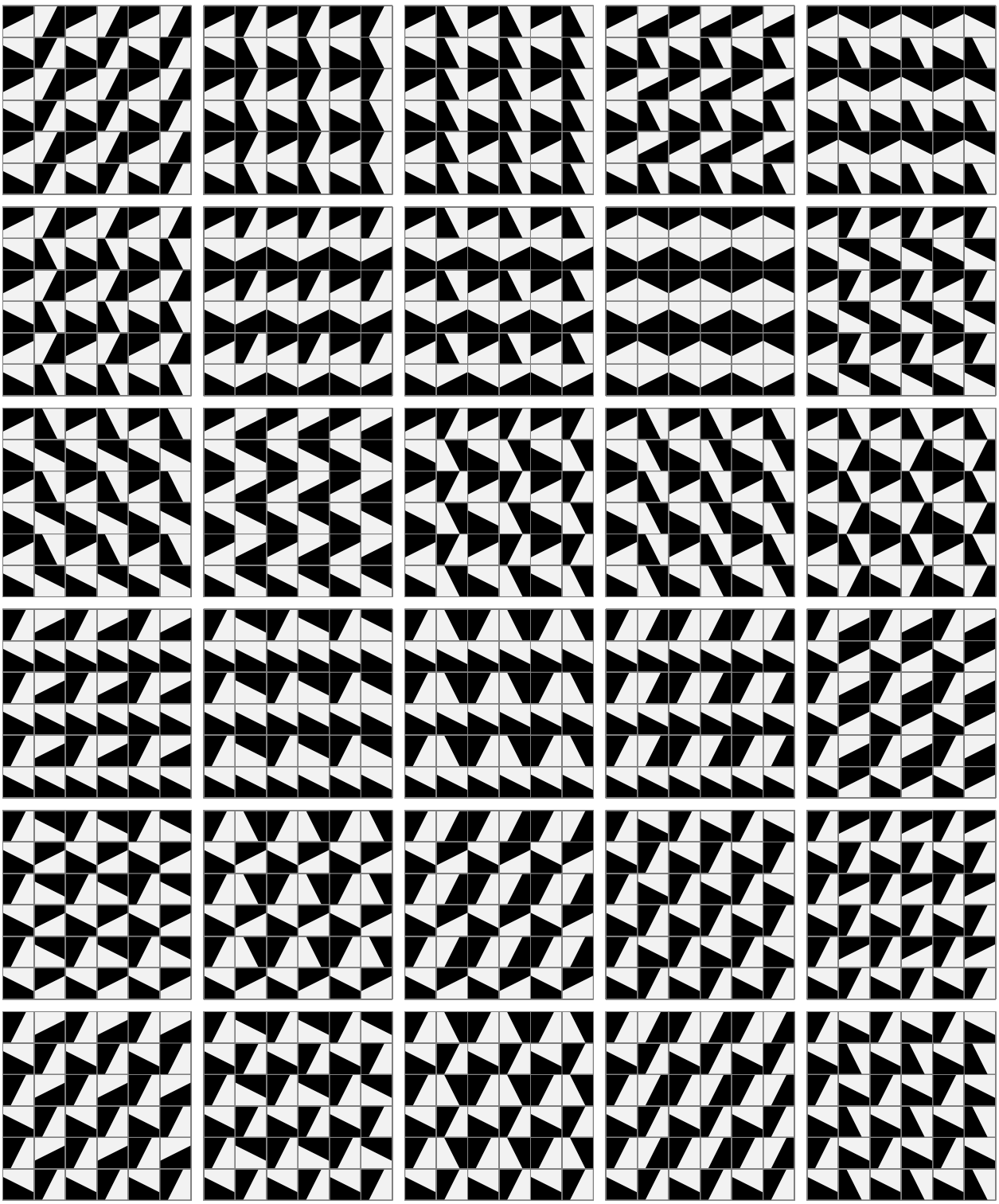
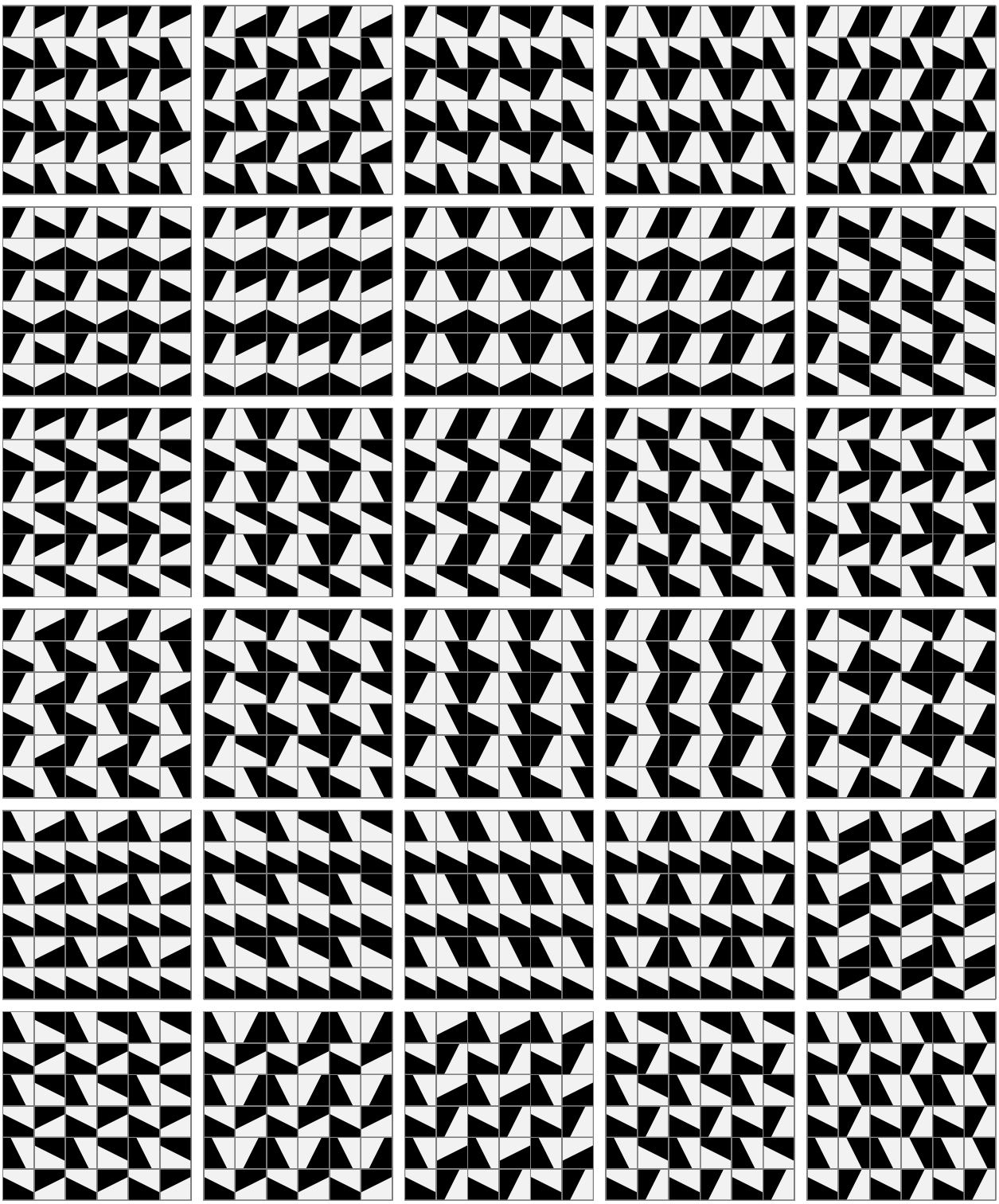
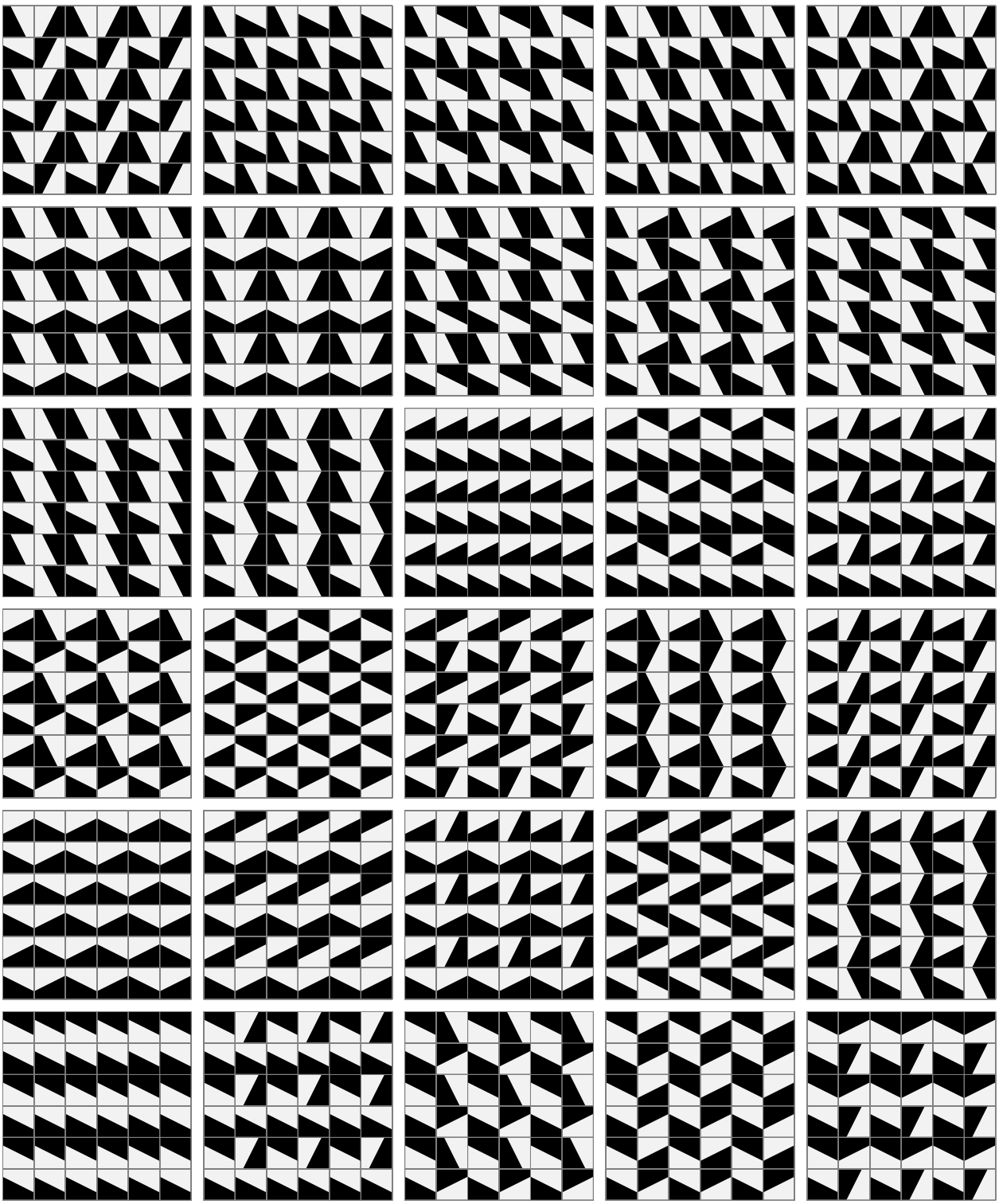
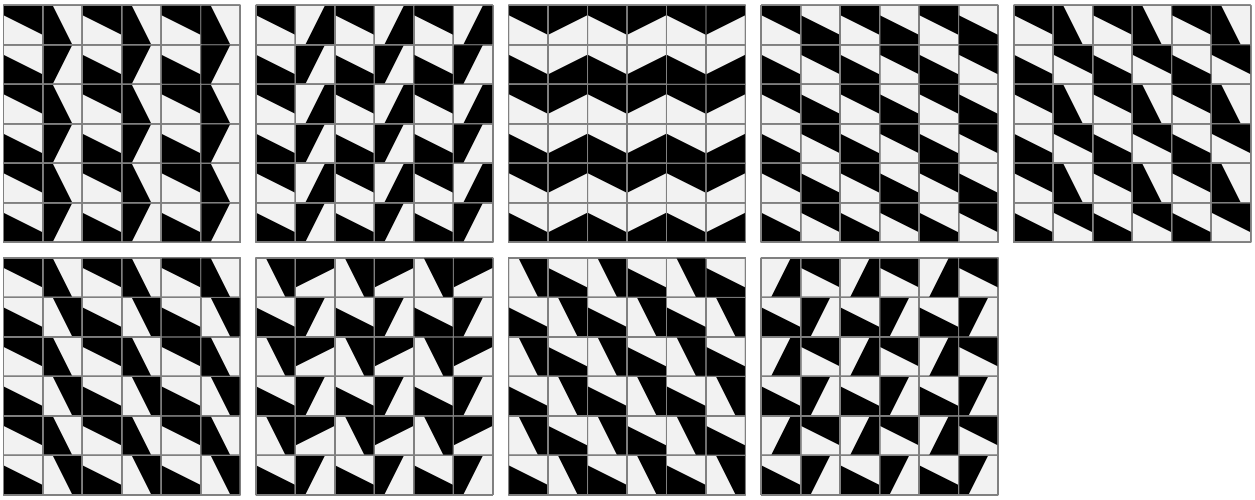
The A368138(2) = 154 ways of tiling the 2×2 torus by tiles in



up to the symmetries of the square: