We study the order dimension of the lattice of closed sets for a convex geometry by looking at colorings of two graphs. The Erdős-Szekeres Conjecture of planar point sets in general position can be stated in terms of the clique number of one of these graphs. In 1961 Erdős and Szekeres created a point set of size $2^{n-2}$ points and contains no vertex set of a convex $n$-gon. We use these graphs to show that this point set has order dimension $n - 1$ and any point set of size more than $n - 1$ has order dimension strictly larger than $n - 1$. (Received September 15, 2011)