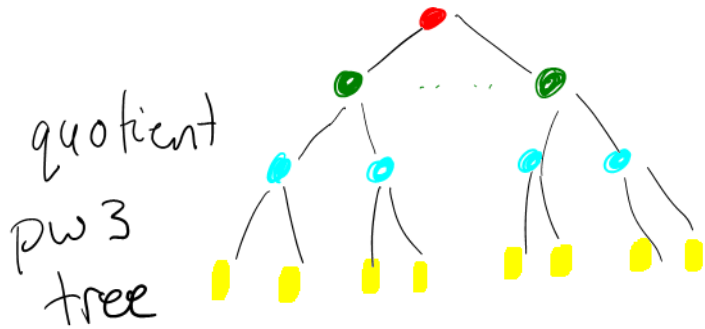
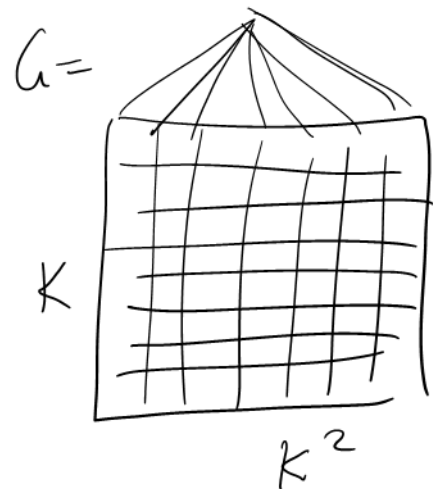
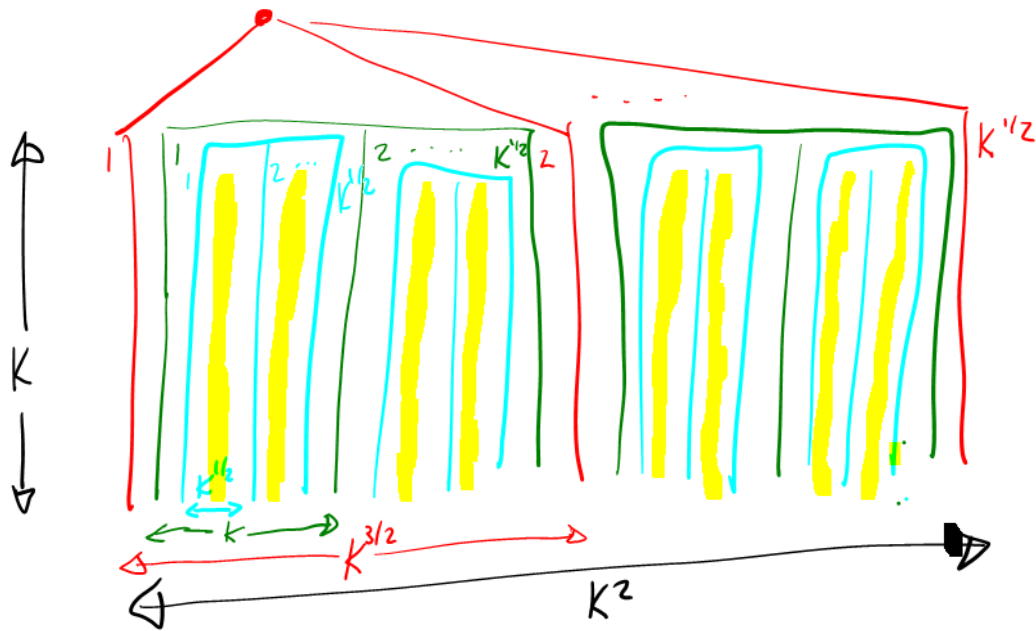


$$|part| \leq O(K^{3/2}) = O(n^{1/2})$$

quotient has td 4, pw 3
and is almost a tree (no K_4 -e)



$n = K^3 + 1$
 each part
 has \leq
 $2K^{3/2}$ vertices
 $\approx 2\sqrt{n}$