inequality induction:
Claim:
$$\hat{z}_{1:z} = \frac{1}{1^2} \leq \frac{3}{4} - \frac{1}{n}$$
 for all $n = 7.2$
Base cast: $n = 2$
 $\hat{z}_{1:z} = \frac{1}{1^2}$ $\frac{1}{4} \leq \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{2}} = \frac{1}{4}$
 $\frac{1}{4} \leq \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{2}} = \frac{1}{4}$
 $\frac{1}{4} \leq \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} = \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} + \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} = \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} + \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} = \frac{3}{4} + \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} = \frac{3}{4} + \frac{1}{4} + \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{4}} + \frac{1}{4} \sqrt{\frac{3}{4} - \frac{1}{$

So,
$$\frac{3}{4} - \left(\frac{k^2 + 1 - k}{k^3 - k^2}\right) \leq \frac{3}{4} - \frac{1}{k}$$
, which is what we wanted to show

in the center of the grid, 50 the IK can be applied to each quadrant. Thus, each quadrant can be tiled with right trianinos, 50 the entre grid can too.