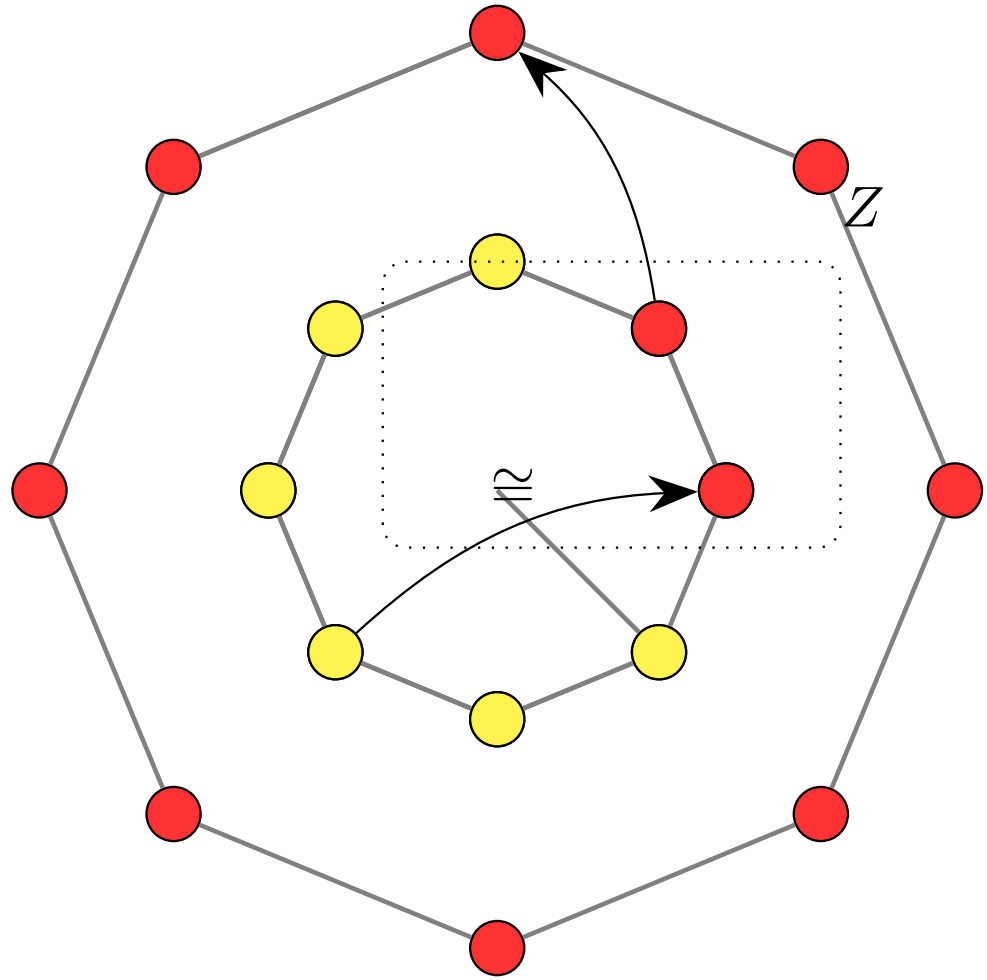

Figure 1: Illustration of the proof of Proposition **??**: Any ball of radius $r < \lfloor n/2 \rfloor$ in graph-distance (indicated by the dotted rectangle) around any vertex in $G_{k,n}$ is isomorphic to the respective ball around 0 in $G_{k,\infty}$. On the other hand, for given $r \geq 1$ we can choose $n \geq \lceil 2r \rceil$ so that each ball of radius r in $G_{k,n}$ is isomorphic to the respective ball around 0 in $G_{k,\infty}$.