

1135-VS-800

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A point P in a set S of lattice points is weakly visible from the origin O if no other point in S lies on the line segment OP . A function whose domain is S with co-domain consisting of lattice points is said to be weak visibility preserving if any point P that is weakly visible in S , then $f(P)$ is weakly visible in $f[S]$. Two particular types of functions are investigated, with one always being weak visibility preserving and the other never being so. (Received September 14, 2017)