The domain is all values that k is allowed to be. Since I can't divide by zero (division by zero isn't allowed,

I need to find all values of k that would cause division by zero.

The domain will then be all other k-values.

When is this denominator equal to zero?

 $k^2-1{=}0$ $k{=}{\pm}1$ then the domain of z is $\{k{\nmid}k{\neq}1$ or $-1\}$