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

I need to find all values of z that would cause division by zero. The domain will then be all other z-values.

When is this denominator equal to zero? $z^2 - 1 = 0$

 $z=\pm 1$ then the domain of k is $\{z \mid z \neq 1 \text{ or } -1\}$