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

The domain will then be all other k-values. When is this denominator equal to zero?

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

 $k^2 - 1 = 0$

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