Since I can't divide by zero (division by zero isn't allowed, I need to find all values of g that would cause division by zero.

The domain is all values that g is allowed to be.

The domain will then be all other $\mathsf{g} ext{-}\mathsf{values}$. When is this denominator equal to zero?

q=3 or 9 then the domain of j is $\{g \mid g \neq 3 \text{ or } 9\}$

 $q^2 - 12 q + 27 = 0$