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

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

 $h=\pm 3$  then the domain of g is  $\{h \mid h \neq 3 \text{ or } -3\}$ 

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

 $h^2 - 9 = 0$