3.

The domain is all values that c is allowed to be.
Since I can't divide by zero (division by zero isn't allowed,
I need to find all values of c that would cause division by zero.
The domain will then be all other c-values.
When is this denominator equal to zero?
$c^2 - 9 = 0$
$c = \pm 3$ then the domain of h is $\{c \mid c \neq 3 \text{ or } -3\}$