5.

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?

$c^2 - 4c + 3 = 0$

c=3 or 1 then the domain of g is $\{c \mid c \neq 3 \text{ or } 1\}$