1.

The domain is all values that e is allowed to be.
Since I can't divide by zero (division by zero isn't allowed,
I need to find all values of e that would cause division by zero.
The domain will then be all other e-values.
 When is this denominator equal to zero?
$e^2 - 6e + 8 = 0$
e=2 or 4 then the domain of w is $\{e | e \neq 2$ or $4\}$