## The domain is all values that u is allowed to be. Since I can't divide by zero (division by zero isn't allowed, I need to find all values of u that would cause division by zero.

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

 $u^2 - 4 = 0$ 

 $u=\pm 2$  then the domain of w is  $\{u \mid u \neq 2 \text{ or } -2\}$