

2.

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?

$$4e^4 + 1 = 0$$

impossible, then the domain of w is $(-\infty, \infty)$ i.e. $e \in \mathbb{R}$