

2.

The domain is all values that w is allowed to be.

Since I can't divide by zero (division by zero isn't allowed,
I need to find all values of w that would cause division by zero.

The domain will then be all other w -values.

When is this denominator equal to zero?

$$w^2 - 16 = 0$$

$w = \pm 4$ then the domain of v is $\{w \mid w \neq 4 \text{ or } -4\}$