

4.

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

Since I can't divide by zero (division by zero isn't allowed,
I need to find all values of y that would cause division by zero.
The domain will then be all other y -values.

When is this denominator equal to zero?

$$y^2 - 25 = 0$$

$y = \pm 5$ then the domain of f is $\{y \mid y \neq 5 \text{ or } -5\}$