

5.

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

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

When is this denominator equal to zero?

$$m^2 - 25 = 0$$

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