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

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

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

 $z^2 - 25 = 0$ 

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