

2.

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

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

The domain will then be all other n -values.

When is this denominator equal to zero?

$$n^2 - 9 = 0$$

$n = \pm 3$ then the domain of z is $\{n \mid n \neq 3 \text{ or } -3\}$