

1.

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

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

The domain will then be all other c -values.

When is this denominator equal to zero?

$$c^2 - 9 = 0$$

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