

1.

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

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

The domain will then be all other j -values.

When is this denominator equal to zero?

$$j^2 - 27j + 50 = 0$$

$j = 2$ or 25 then the domain of e is $\{j \mid j \neq 2 \text{ or } 25\}$