

3.

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

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

When is this denominator equal to zero?

$$u^2 - 19u + 48 = 0$$

$u = 3$ or 16 then the domain of c is $\{u \mid u \neq 3 \text{ or } 16\}$