

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?

$$c^2 - 28c + 75 = 0$$

$c = 3$  or  $25$  then the domain of  $u$  is  $\{c \mid c \neq 3 \text{ or } 25\}$