

5.

The domain is all values that  $z$  is allowed to be.

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

When is this denominator equal to zero?

$$z^2 - 7z + 12 = 0$$

$z = 3$  or  $4$  then the domain of  $k$  is  $\{z \mid z \neq 3 \text{ or } 4\}$