

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?

$$3z^4 + 4 = 0$$

impossible , then the domain of  $c$  is  $(-\infty, \infty)$  i.e.  $z \in \mathbb{R}$