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

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

The domain will then be all other d-values. When is this denominator equal to zero?

 $5 d^4 + 4 = 0$ 

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