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

 $3\ d^4 + 9 = 0$ impossible , then the domain of y is $(-\infty,\infty)$ i.e. $d \in \mathbb{R}$

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