$5 u^4 + 1 = 0$

I need to find all values of u that would cause division by zero.

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

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

The domain is all values that u is allowed to be. Since I can't divide by zero (division by zero isn't allowed,