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

I need to find all values of r that would cause division by zero. The domain will then be all other r-values. When is this denominator equal to zero?

 $5 r^4 + 1 = 0$ impossible , then the domain of j is $(-\infty,\infty)$ i.e. $r \in \mathbb{R}$