The domain is all values that f is allowed to be. Since I can't divide by zero (division by zero isn't allowed, I need to find all values of f that would cause division by zero.

3 f⁴ + 25=0

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

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