5.

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

$5f^4+16=0$

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