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

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

When is this denominator equal to zero? $2b^4 + 4=0$

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

The domain will then be all other b-values.