The domain is all values that x is allowed to be.

When is this denominator equal to zero? $2 x^4 + 1 = 0$

The domain will then be all other x-values.

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

Since I can't divide by zero (division by zero isn't allowed, I need to find all values of ${\sf x}$ that would cause division by zero.