## 4.

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?

$f^2 - 4 = 0$

$f = \pm 2$ then the domain of i is $\{f \mid f \neq 2 \text{ or } -2\}$