

4.

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

Since I can't divide by zero (division by zero isn't allowed,
I need to find all values of i that would cause division by zero.
The domain will then be all other i -values.

When is this denominator equal to zero?

$$i^2 - 12i + 27 = 0$$

$i = 3$ or 9 then the domain of p is $\{i \mid i \neq 3 \text{ or } 9\}$