

# Algebra II

5-4

## Domain and Zeros of Rational Functions

---

Function-

Rational Function-

Domain-

What must always be a concern when working with Rational Functions?

---

Zeros-

What has to be true about a fraction that is equal to zero?

---

Find the domain and the zeros for the following functions.

\*1)  $f(x) = \frac{x-2}{x+5}$

Domain:

Zeros:

\*2)  $f(x) = \frac{1}{x^2 - 5x - 6}$

Domain:

Zeros:

\*3)  $f(x) = x^2 - x - 12$

Domain:

Zeros:

\*4)  $f(x) = \frac{x^2 - 2x - 15}{x - 5}$

Domain:

Zeros:

\*5)  $f(x) = \frac{1}{x^2 + 4}$

Domain:

Zeros:

Assignment:

Pg. 228

Oral: 7-15 all,

Written: 21-28 all