

RATIONAL FUNCTIONS

PART I: INTRODUCTION AND EXPLORATION

Recall: Last day, we considered polynomial functions. Now let's consider what happens when one polynomial function is divided by another.

Definition: A **rational function** is defined by,

$$f(x) = \frac{p(x)}{q(x)}$$

where $p(x)$ and $q(x)$ are polynomial functions and $q(x) \neq 0$.

Discussion Questions:

- What happens when we approach the values of x which make the denominator zero?
- Suppose that the rabbit population on Mr. Jenkin's farm follows the formula $p(t) = \frac{3000t}{t+1}$ where $t \geq 0$ is the time (in months) since the beginning of the year. What eventually happens to the rabbit population?
[Source: *Explaining* by Stewart, Redlin and Watson, 2007]
- How can we solve $\frac{x}{x+3} - \frac{2}{x} = 1$?

Additional Notes:

PART II: PRE-LECTURE VIDEOS



Watch the pre-lecture videos to learn more about:

- Vertical and horizontal asymptotes
- Simplifying rational expressions
- Solving rational equations

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David Kirk



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