

# MTH 30 LECTURE NOTES (Ojakian)

## Topic 14: Rational Functions

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### OUTLINE

(References: 3.7)

#### 1. Rational Functions

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##### 1. Rational Functions

- (a) Definition
- (b) Domain

##### 2. Basic Graphing

- (a)  $\frac{1}{x^4}$  versus  $\frac{1}{x^7}$ , etc
- (b) Asymptotes
- (c) Transformation (along with asymptotes)
- (d) Domain and Range

##### 3. Arrow Notation

- (a) Recall End Behavior
- (b) Also at some number