

### x-intercept behavior



# Summary of Analysis

## **Rational End Behavior**

$$R(x) = \frac{p(x)}{q(x)} = \frac{a_n x^n + a_n}{b_m x^m + b_m}$$

n = degree of top polynomial

case

$$n = m$$

#### 3 zeros of Rational Functions

# R(0)

All real xthat make top p(x) = 0

All real xthat make bottom q(x) = 0



y intercept

x intercepts

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