Rational Polynomials: Graphing and Asymptotes Find the intercepts, if there are any. Step 1: Set the numerator to 0 to solve for horizontal

intercepts.
Step 2: Set the x to 0 to solve for vertical intercept.
Step 3: Set the denominator to 0 to solve for vertical
asymptotes.
Step 4: Perform a long division to find the quotient which

specifies the oblique asymptote.

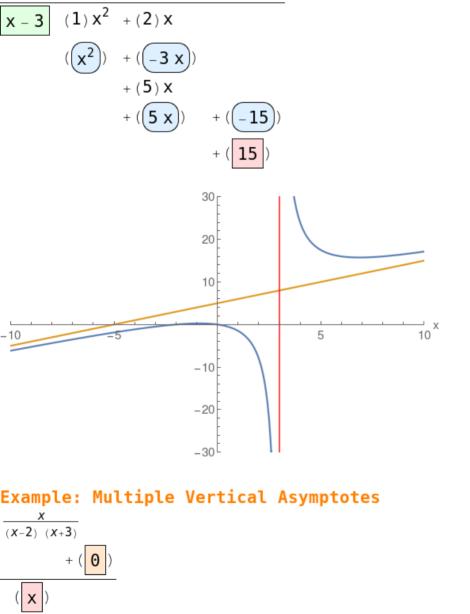
Note: Blue curve the actual Rational function.

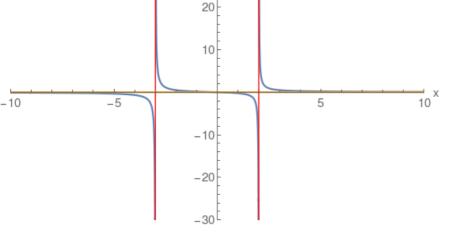
Red and Gold asymptotes.

Example: Horizontal Asymptote

5x-3
x-4

$$x - 4$$
 $(5) x + (-3)$ $(5x) + (-20)$ $+ (17)$ $x - 10$ $x - 10$ $x - 20$ $x - 20$





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