## 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 numerator to 0 to solve for norizontal intercepts.

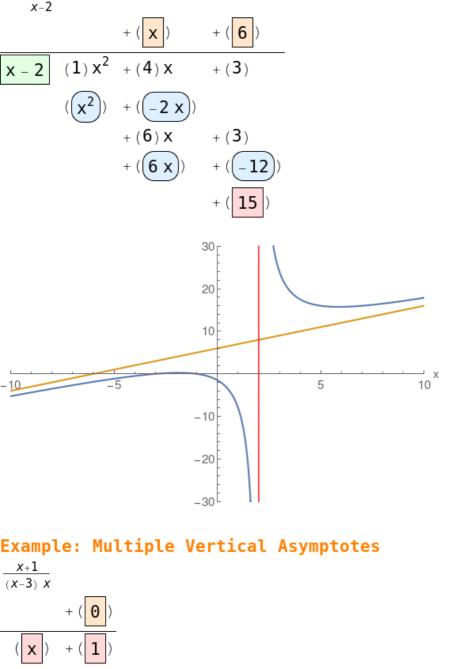
Step 2: Set the x to 0 to solve for vertical intercept.

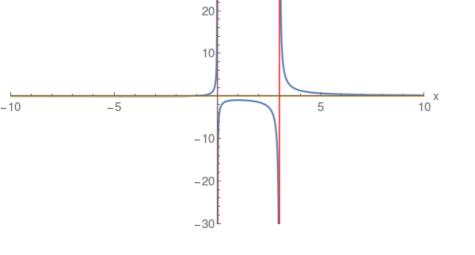
Step 3: Set the denominator to 0 to solve for vertical asymptotes.

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  $\frac{4 \times 2}{x-5}$ 

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