## 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.

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.

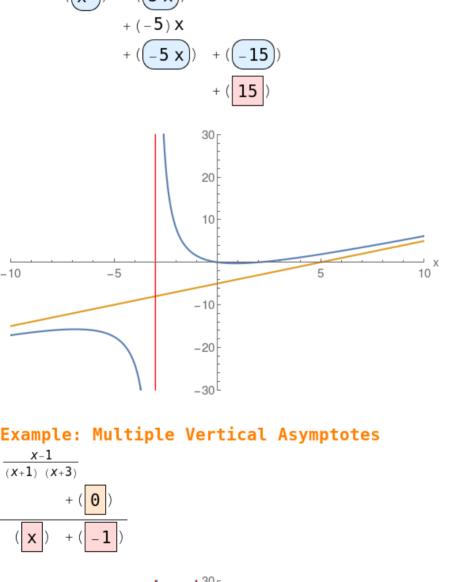
Example: Horizontal Asymptote

3x-1

(x-2) X

x + 3

 $(1) x^2$ 



20 - 10 -5 5 10 X