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

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

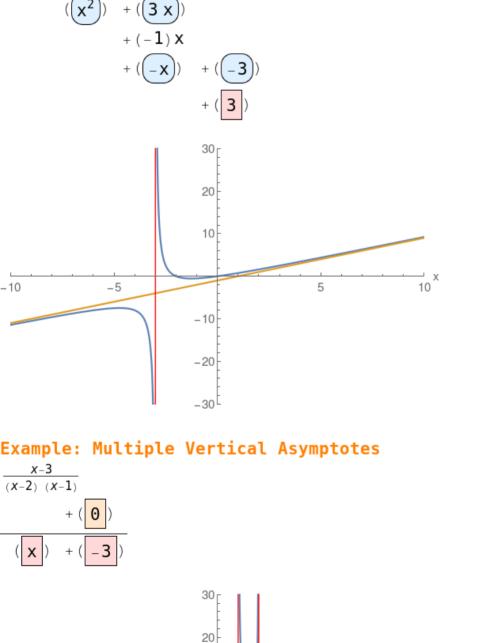
 $\frac{x-4}{2 x-5} + \left(\boxed{\frac{1}{2}} \right)$

 $(1) x^2 + (2) x$

x + 3

-10

-5



10

-10

-20

-30

5