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 $\frac{3x-5}{}$

Example: Oblique Linear Asymptote

2x-1

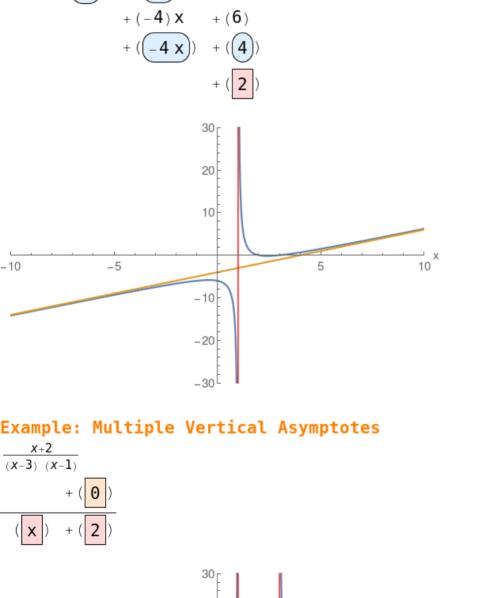
(x-3)(x-2)

x - 1

-10

-5

 $(1) x^2$



20

10

-10

-20

-30