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 where it is a symptote.

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.

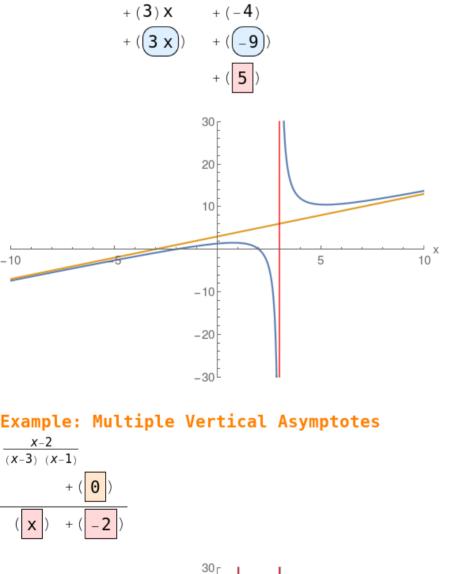
Example: Horizontal Asymptote $\frac{2 \times -3}{5 \times -1} + (\boxed{\frac{2}{5}})$

 $(1)\overline{x^2}$

x - 3

-10

-5



20

10

-10

-20

-30