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 wh

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.

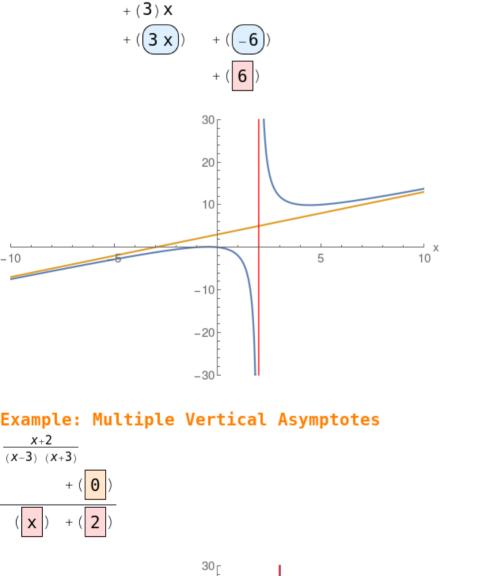
Example: Horizontal Asymptote $\frac{4 \times 1}{5 \times 2}$ $+ (\boxed{\frac{4}{5}})$

 $(1) x^2$

x - 2

-10

-5



20

10

-10

-20

-30[[]

10 X