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

-30

Example: Oblique Linear Asymptote

5x-2

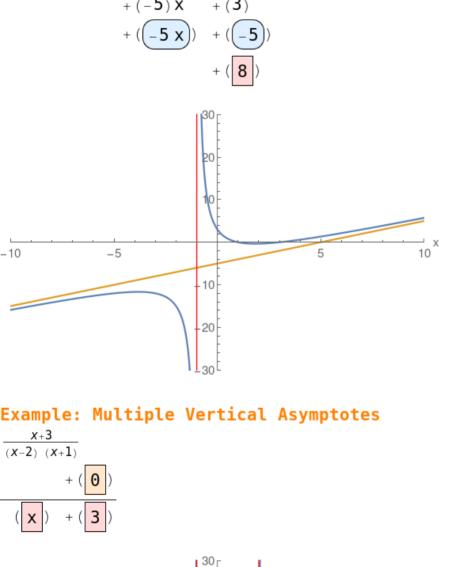
 $\frac{(x-3) \cdot (x-1)}{x+1}$

x + 1

-10

-5

 $(1) x^2$



20

10

20

10 ×