



Vertical Asymptotes How are they found? 2005 Ofdenominator But not the factors that cancel out (holes)

Rational Function is in the form:
$$\frac{ax^n + bx^{n-1} + cx^{n-2}}{ax^n bx^{n-1} cx^{n-2}}$$

Ex 2) Find the vertical asymptotes.
$$\frac{x+2}{x^2 - 5x + 4} = \frac{\cancel{(Y-Y)(Y-1)}}{\cancel{(Y-Y)(Y-1)}}$$

Horizontal Asymptotes / End Behavior
$$f(x) = \frac{x+2}{x^2+2x+7}$$

$$y=0$$

$$f(x) = \frac{2x^2+7}{3x^2-5x+2}$$

$$y=0$$

$$y$$

