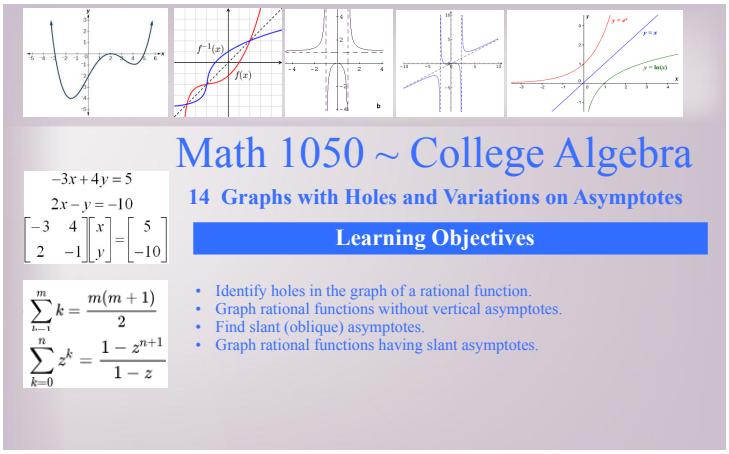
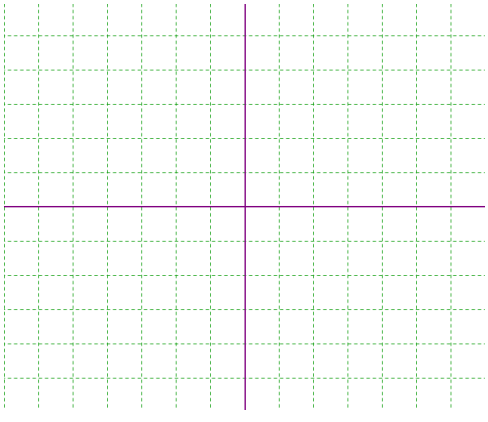


Since there can be no points on the vertical asymptotes, what happens in an example like this?

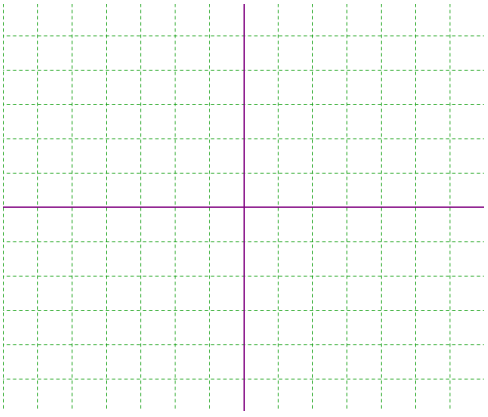
Ex 1: Analyze and graph.

$$H(x) = \frac{x-2}{x^2-4}$$



Graphing Rational Functions with No Vertical Asymptotes

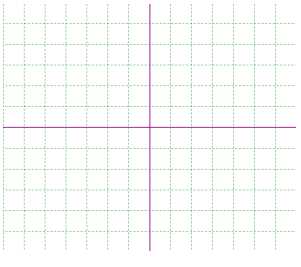
Ex 2: Analyze and graph. $H(x) = \dfrac{2x+3}{x^2+2}$



Identifying Slant (Oblique) Asymptotes

Ex 3: Analyze and graph.

$H(x) = \dfrac{x^2 - x + 6}{x+3}$



Ex 4: Analyze and graph.

$$f(x) = \frac{x^3 - 1}{x - 1}$$