

## 2.5 Exploring Graphs of Rational Functions

The restricted values of rational functions correspond to two different types of graphical features: **holes** and **vertical asymptotes**. A hole is a point on the graph where the graph appears continuous but at one  $x$  value will be undefined and therefore creates a hole at that location. An asymptote is an imaginary line that a graph gets closer and closer to but never touches as the graph continues to infinite or negative infinite.

### Holes:

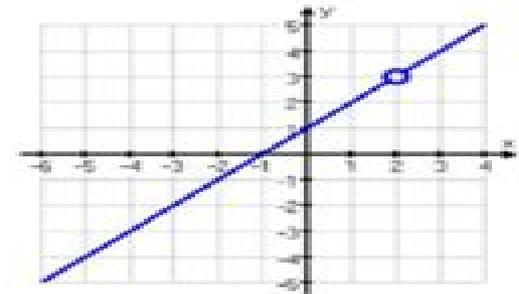
A Hole will occur at restricted values that result from a factor of the denominator that is a factor of numerator (factors that will be divided out).

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

Has a hole at  $x = 2$ , since  $g(x)$  can be factored to the rational equation:

$$g(x) = \frac{(x - 2)(x + 1)}{(x - 2)} ; x \neq 2$$

$$g(x) = x + 1$$

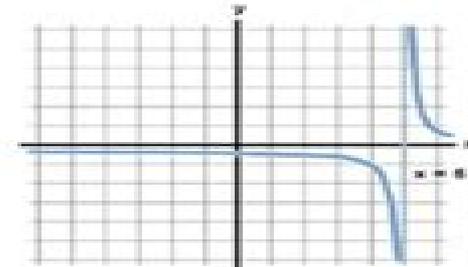


### Vertical Asymptotes:

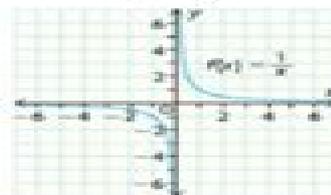
A vertical asymptote occurs at a restricted value that is still a zero of the denominator after simplification.

$$g(x) = \frac{3}{x - 5} ; x \neq 5$$

In this example there would be a vertical asymptote at  $x = 5$ .



Remember that the graph of the reciprocal function  $y = \frac{1}{x}$  is shown below. It has a vertical asymptote at  $x = 0$  and a horizontal asymptote at  $y = 0$ .



# Exploring Rational Functions Tesccc

**Lei Shi**



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