

* A rational function is a function which can be defined by a rational fraction, i.e. an algebraic fraction such that both the numerator and the denominator are polynomials.

* If a function has a polynomial in its _____, the graph of the function is discontinuous at each zero of the polynomial (in the denominator). The gap could be a one-point _____ in the graph, or it could be the location of a _____ for the graph.

$$y = \frac{x^2}{x^2 + 1}$$

$$y = \frac{(x + 3)(x + 2)}{(x + 2)}$$

$$y = \frac{x + 4}{x - 2}$$

No value of x will make the denominator zero

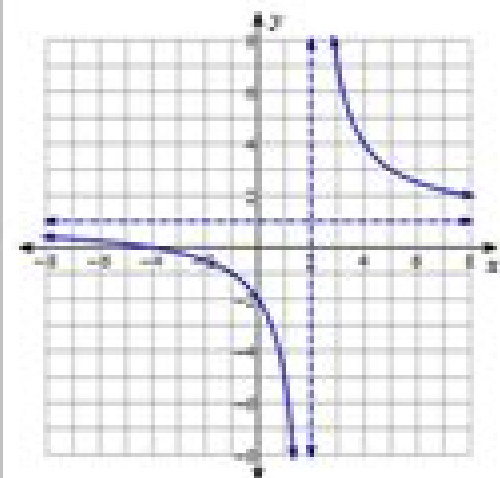
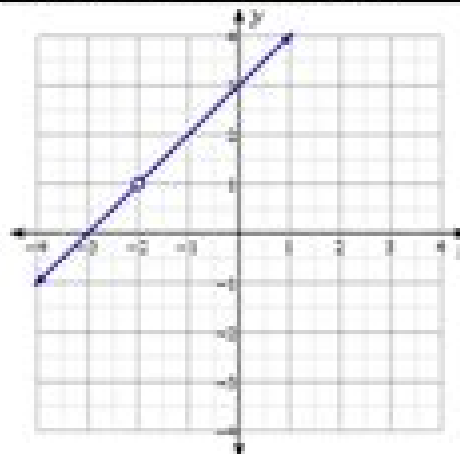
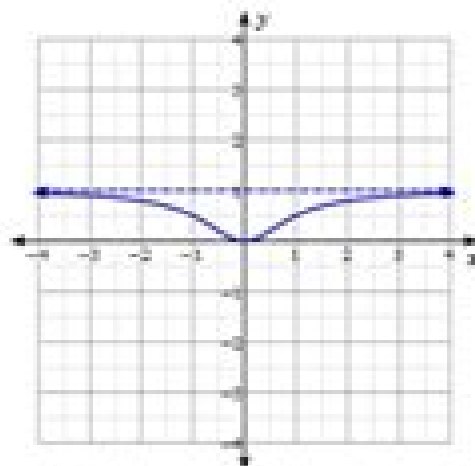
$x \neq \underline{\hspace{1cm}}$

$x \neq \underline{\hspace{1cm}}$

Continuous Graph (No jumps, breaks, or holes)

Removable Discontinuity
(We can redefine at $x = -2$ so that there is no break.

Non-Removable Discontinuity at $x = 2$. No way to redefine function at 2.



Applications Of Rational Functions Key

M. G. Settle



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