

Use limits to describe the behavior of  $f$  at values of  $x$  not in the domain.

$$f(x) = \frac{3x^2}{x^2 - 1}$$

Find the asymptotes and intercepts of the function and graph the function

$$f(x) = \frac{x-3}{x^2-4x-12}$$

$$g(x) = \frac{x^2+7x-18}{x+3}$$