

## Rational Function Worksheet

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

Rational Function	Holes	Vertical Asymptote	Horizontal Asymptote	Slant Asymptote
$h(x) = \frac{2x-2}{2x+2}$				
$h(x) = \frac{2x}{2x(x-5)}$				
$g(x) = \frac{(3x-1)(x+2)}{x+2}$				
$g(x) = \frac{(x+1)}{x^2+4x-21}$				
$t(x) = \frac{3x-1}{9x^2-36}$				
$a(x) = \frac{7x+8}{x^2-10x+25}$				
$a(x) = \frac{7x+1}{5x^2+3}$				
$v(x) = \frac{x^2-4}{x^2+4}$				
$v(x) = \frac{x^2-4x}{x^3-x^2-20x}$				
$g(x) = \frac{5x^2-3x}{x^3-8x^2+16x}$				
$t(x) = \frac{5x^2-10x+1}{x-2}$				
$t(x) = \frac{x^2-x}{x+1}$				
$g(x) = \frac{x^2+x-6}{x+1}$				
$f(x) = \frac{3x^2-2x+2}{x-1}$				