Support for College Algebra
Fall 2016
Quiz #4

Name: Key **Date:**_____

Find the domain of the following functions and write your result in Interval Notation.

1. $g(x) = \frac{x+3}{x-5}$

$x - 5 \neq 0$

$x \neq 5$

$(-\infty, 5) \cup (5, \infty)$

2. $f(x) = \sqrt{x-4}$

$x - 4 \geq 0$

$x \geq 4$

$[4, \infty)$

3. $h(t) = t^2 - 3t - 10$

$\mathbb{R}$

$(-\infty, \infty)$

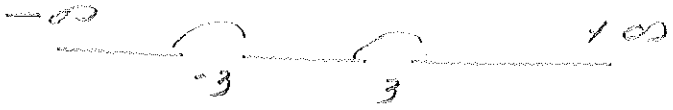
4. $s(x) = \frac{x}{x^2-9}$

$x^2 - 9 \neq 0$

$x^2 \neq 9$

$\sqrt{x^2} \neq \pm\sqrt{9}$

$x \neq \pm 3$



$(-\infty, -3) \cup (-3, 3) \cup (3, \infty)$

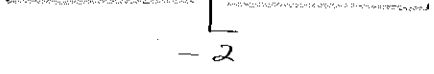
5. $f(x) = \frac{\sqrt{x+2}}{x+2}$

$x + 2 \geq 0$

$x \geq -2$

$x + 2 \neq 0$

$x \neq -2$



$(-2, \infty)$