Name: **Math 4 Homework 19**

Part 1: Review. Answer the following questions about the function $g(x)=\frac{3x}{x-1}$**.**

A. Find the following: g(-2) = g(0) = g(x+1) =

B. What is the domain of g(x)?

C. What is the range of g(x)?

D. Is g(x) discrete or continuous?

Part 2: Practice. Complete textbook Section 4.4, questions 8-21 all. Complete your work on a separate sheet of graph paper.

Part 3: Look Ahead. Complete the Inequalities Review on the back side of this sheet.

Comparing Fractions (A)

Compare each pair of fractions using a <, > or = sign.

$2\frac{5}{8}$ ☐ $\frac{5}{12}$	$\frac{5}{7}$ ☐ $\frac{3}{6}$	$13\frac{1}{2}$ ☐ $1\frac{3}{8}$	$1\frac{1}{12}$ ☐ $4\frac{2}{7}$
$\frac{33}{5}$ ☐ $\frac{28}{11}$	$\frac{6}{8}$ ☐ $\frac{1}{4}$	$2\frac{2}{5}$ ☐ $3\frac{1}{9}$	$\frac{7}{5}$ ☐ $3\frac{1}{3}$
$\frac{14}{11}$ ☐ $2\frac{3}{9}$	$\frac{1}{3}$ ☐ $\frac{2}{5}$	$\frac{1}{3}$ ☐ $\frac{8}{6}$	$\frac{6}{9}$ ☐ $2\frac{1}{12}$
$3\frac{7}{8}$ ☐ $\frac{22}{3}$	$1\frac{3}{6}$ ☐ $\frac{3}{9}$	$\frac{33}{2}$ ☐ $\frac{1}{12}$	$\frac{3}{5}$ ☐ $1\frac{7}{8}$
$\frac{35}{3}$ ☐ $\frac{28}{10}$	$\frac{9}{12}$ ☐ $9\frac{1}{2}$	$2\frac{6}{9}$ ☐ $\frac{28}{3}$	$4\frac{6}{7}$ ☐ $\frac{30}{8}$
$\frac{6}{10}$ ☐ $4\frac{4}{5}$	$17\frac{1}{2}$ ☐ $\frac{5}{8}$	$\frac{2}{3}$ ☐ $\frac{1}{6}$	$\frac{16}{10}$ ☐ $2\frac{2}{8}$
$\frac{27}{6}$ ☐ $1\frac{1}{2}$	$5\frac{2}{4}$ ☐ $2\frac{3}{12}$	$3\frac{4}{9}$ ☐ $\frac{1}{11}$	$\frac{3}{12}$ ☐ $\frac{1}{4}$
$\frac{15}{8}$ ☐ $\frac{2}{3}$	$1\frac{1}{7}$ ☐ $1\frac{2}{12}$	$\frac{4}{11}$ ☐ $\frac{32}{11}$	$\frac{2}{4}$ ☐ $\frac{24}{11}$
$\frac{9}{4}$ ☐ $4\frac{5}{6}$	$\frac{28}{9}$ ☐ $3\frac{2}{7}$	$16\frac{1}{2}$ ☐ $\frac{5}{12}$	$\frac{21}{7}$ ☐ $\frac{12}{3}$
$\frac{20}{12}$ ☐ $\frac{10}{11}$	$\frac{8}{6}$ ☐ $\frac{33}{7}$	$\frac{10}{12}$ ☐ $\frac{15}{5}$	$2\frac{7}{9}$ ☐ $\frac{32}{11}$