

# Math 151 - Quiz 9

November 4, 2015

Name key

Score \_\_\_\_\_

Show all work. Supply explanations when necessary.

1. (7 points) Solve the following inequality. Write your answer in interval notation.

$$\frac{x-4}{(x-2)(x+1)} \geq 0$$

Domain excluded pts:

$$x=2, x=-1$$

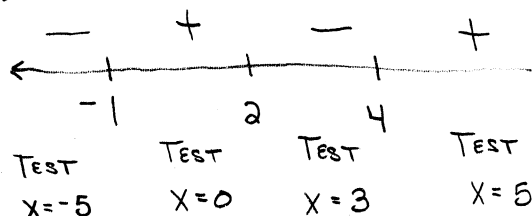
Zeros:

$$x=4$$

LHS  $\geq 0$  on

$$(-1, 2) \cup [4, \infty)$$

Signs  
of LHS



CANNOT  
INCLUDED  
Domain  
EXCLUDED  
PTS

INCLUDE  
ZERO

2. (3 points) Make a table of values showing four points on the graph of  $f(x) = 3^x$ . Then sketch the graph of  $f$ .

x	f(x)
-1	$\frac{1}{3}$
0	1
1	3
2	9

