

NAME: _____

DATE: _____

ACTIVITY #1

Test I. Evaluate each rational expression using indicated values for the variables.

1. $\frac{n^2-1}{39n}$

a. $n = 3$

b. $n = -3$

2. $\frac{6+h-h^2}{4h-8}$

a. $h = 3$

b. $h = -3$

3. $\frac{p^2-pq}{q+p}$

a. $p = 3 ; q = -1$

b. $p = -3; q = 1$

Test II. Find every value of the variable that makes each rational expression undefined.

4. $\frac{3x}{x^2-121}$

$x \neq$

5. $\frac{x+2}{(x-2)(x+1)}$

$x \neq$

6. $\frac{(x-3)(x+2)}{x^2-5x-6}$

$x \neq$

Test III: Reduce each to its lowest term.

7. $\frac{a-b}{a^2-b^2}$

8. $\frac{5x^2-20}{6x+12}$

9. $\frac{5x(2x+1)}{7x(8x+4)}$