Pre-Calculus
Section 2.8 - day 2
Practice Problems

Name $\qquad$
Group Members $\qquad$
Directions: Show all of your work on this sheet of paper. Write your answers only on the answer sheet. When you have completed all problems, staple everyone's individual work pages together with the group's answer sheet on top.

Solve each of the following inequalities algebraically. Show appropriate supporting work (ie. sign charts).

3) $\frac{x-1}{(x-4) \sqrt{x+2}}<0$

5) $\frac{x+2}{x^{2}-9}>0$


$$
(-3,-2) \cup(3, \infty)
$$

7) $\frac{x-3}{|x+2|}<0$

8) $x^{2}|2 x+9| \geq 0$


Always
$\geq 0$

$$
(-\infty, \infty)
$$

4) $\frac{3 x-1}{(x+3) \sqrt{x-5}} \leq 0$

6

6) $(3 x-4) \sqrt{2 x+1} \geq 0$

8) $\frac{x^{3}-4 x}{x^{2}+2} \leq 0$


$$
(-\infty,-2] \cup[0,2]
$$

