

Pre-Calculus  
Section 2.8 – day 2  
Practice Problems

Name \_\_\_\_\_

Group Members \_\_\_\_\_

**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.

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

1)  $\frac{(2x-7)(x+1)}{x+5} > 0$

2)  $x^2 |2x+9| \geq 0$

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

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

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

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

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

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