CALCULUS I HOMEWORK NR. 1: FIRST PART

Spring Semester 2007, SAINT LOUIS UNIVERSITY January 17th, 2007

Name:

Find all the real numbers satisfying the following inequalities. Write the solution using intervals and represent it in the real line.

- (a) $x^4 16 \ge 0$.
- (b) $x^{\frac{2}{3}} x^{\frac{1}{3}} \le 0$.
- (c) $\frac{x+1}{x-1} \ge \frac{x}{x-1}$.
- (d) $x^2 4 \ge 0$
- (e) 2x + 5 < 3x 4
- (f)

$$\frac{3x+2}{x-3} < 2.$$